

Crewe Drawings and Microfilm Lists

Description: The drawings relate to the period when the Crewe Locomotive works was engaged in the construction and repair of steam locomotives. As well as a selection from the main series of drawings as listed in the Registers from the Crewe Drawing Office the collection includes many drawings that were not allocated numbers. These have been allocated artificial numbers for ease of access. There are also selections of drawings from the Second World War period relating to 2-8-0 locomotives built for the War Department, drawings from the supplier William Beardmore & Company, and a small series of drawings from the former Lancaster & Carlisle Railway Company.

The collection includes drawings of machinery such as the tugboat boilers for the Shropshire Union Canal Co. and pumping equipment for Llandovery and Prestatyn Stations and some details of building works such as the drains at the Mechanics Institute.

System of arrangement: The drawings have been listed in six separate sequences:

Main Series: numbered drawings as per the company drawing register

Un-Numbered drawings for which the NRM has provided an artificial number

Folded drawings, mainly historical

War Department 2-8-0 Drawings

William Beardmore & Company drawings

Lancaster & Carlisle Railway Company drawings

There are also three series of microfilm: Main Series, Prince of Wales Class and Coronation Class (please see separate list). Further reference may usefully be made to the drawing office registers, which are accessible through Search Engine.

Physical Characteristics: The majority of the drawings are on wax linen and are in good condition for their age. A small minority are on untreated paper or tracing paper and are therefore fragile. Care must be taken when handling these items.

Administrative History: The Grand Junction Railway opened 1837. In the early period there were many breakages and by mid-1839 the GJR directors had become aware that the railway system would grow substantially. Joseph Locke, engineer in chief, was told to reorganise the whole locomotive department. At that time the GJR locomotive repair shops at Edge Hill, Liverpool were incapable of much enlargement and were fifteen miles away from nearest point on the GJR line. During the take-over of the Crewe and Chester Railway in 1840 it became apparent that C & CR could buy land around the junction at Crewe under the C&C Incorporation Act of 1837, and had already purchased land there for a small workshop. This became the Crewe locomotive works which, although being near the geographical centre of the GJR system, was without any adjacent coal, water or iron workings. The early plans for the site included shops for the building and repair of carriages and wagons.

The GJR board authorised construction in 12 August 1840. Thomas Brassey prepared the ground with Buddicom and Norris acting for Locke. In 1841 Buddicom prepared lists of tools and equipment but left the same year to begin building locomotives in France. An essential part of the project was to build a small town to house the workers and their families who were to transfer from Liverpool as there were few people living in the area around the Crewe. A body later known as the Crewe Committee took responsibility for decisions about the station, staff cottages, town and works from about 1841. Its formation was due to four reasons: the consolidation of the GJR with the L&MR and the Bolton & Leigh Railway in July 1845; the proposed extension of the Works to centralise the anticipated additional repair work; the large extension of Crewe station and the forthcoming completion of the trunk line to Scotland; the expansion of the town as the company took on the management of the new settlement. With the formation of the London & North Western Railway in 1846 from the GJR, the London & Birmingham Railway and the MBR, a General Merchandise and Locomotive committee was formed to co-ordinate locomotive and rolling stock activities of the three divisions into which LNWR had been arranged. The divisions formed were the Northern Division, the Southern Division effectively the L&BR and the North Eastern Division effectively the MBR. In 1857 the Northern and North Eastern Divisions were amalgamated into an enlarged Northern division. The Crewe Committee continued to sanction work for the town and the Works until 1858 when the two locomotive divisions came under a General Store and Locomotive Expenditure Committee with two superintendents reporting directly as did the carriage and wagon superintendents. In 1862 the Northern and Southern locomotive divisions were amalgamated under the control of one superintendent with headquarters at Crewe. For most of the period locomotive running of LNWR was under charge of the locomotive superintendent or chief mechanical engineer although the internal divisions changed.

The stated purpose of the original establishment was the repair and construction of GJR locomotives, carriages and wagons. As locomotive work increased wagon building and repair created space problems and in 1847 the Committee decided to remove the wagon department to the Edge Hill repair shops formerly of the L&MR and to put it under independent supervision of Owen Owens. The locomotive department vacated Edge Hill gradually but in 1847-48 fourteen new locomotives had to be built at Edge Hill due to pressure of work at Crewe. Crewe retained some wagon space for a few years. In return a number of heavy and light locomotive repairs continued to be carried out at Edge Hill until the Jones & Potts locomotive and general engineering works at Newton-le-Willows was rented in 1853, eventually bought and renamed as the Earlestown wagon works. To get more locomotive repair capacity at Crewe after the amalgamation of the Northern and North Eastern division, coach building was transferred to Saltley, Birmingham in 1859 until it was concentrated at Wolverton. Gradually the coaching shop at Crewe was given over to locomotive work and all Wolverton's locomotive building and repair were moved to Crewe.

Work carried out

WORK CARRIED OUT

The Regulation of Railways Act 1889 made automatic continuous brakes compulsory for all passenger trains, resulting in increased activity in the erecting shops until 1893 as the different methods of braking were altered. Under F W Webb the Locomotive Department also took charge of the electric lighting system all over LNWR, the provision of water and coal and supply and repair of all cranes weighing machines and hydraulic equipment used by the traffic department. Construction and maintenance connected with all these matters was centred at Crewe working through the outdoor department. The Crewe Works produced its own gas supply, initially for the works only but later supplying the town. Similarly the supply of water to Crewe town was the responsibility of the locomotive department.

Principal activities were locomotive building and repairing including: all new boilers for standard London Midland & Scottish Railway locomotives; steel castings, drop stampings and heavy forgings for all LMSR works; chair castings and points and crossing manufacture for the Chief Civil Engineer's Department; manufacture of signals, locking frames and crossing-gate work for the Signal and Telegraph Department. The Works had its own 18" gauge railway using engines such as Billy and Dicky for transporting items around the main workshops.

Key Dates in Crewe Works History

1840 Directors of the Grand Junction Railway agreed to build a Locomotive Works at Crewe occupying a site of about three acres.

1843 Transfer of work from Edge Hill Works officially completed.

First locomotive completed, No 32 Tamerlane

Completion of building the Works celebrated with a ball and banquet.

1845 No 49 Columbine completed, the first official locomotive built at Crewe.

Grand Junction Railway amalgamated with the Liverpool & Manchester Railway.

1846 London and Birmingham, Grand Junction and Manchester and Birmingham Railways merged to form LNWR

1858 DX class produced, first example of standardisation and mass production

Ramsbottom's Lady of the Lake class, 2-2-2 built

1862 No 531 Lady of the Lake awarded Gold Medal at International Exhibition
Size of works extended considerably.
Tiny completed, the first 18" gauge locomotive for the Works tramway system.
Crewe became locomotive centre of LNWR. Wagon and carriage work transferred to Earlestown and Wolverton respectively.

1863 Works further extended including opening of Bessemer steel plant

1866 1,000th locomotive completed, 2-2-2-2 compound No 600.

1870 Works extended again

1876 2,000th locomotive completed, Webb 2-4-0T No 2233

1886 Company built a gas works and later introduced the water supply from its own reservoirs to service the needs of the townspeople.

1887 3,000th locomotive completed, 2-2-2-2 compound No 6000

1888 0-6-0 No 2153 assembled in 25½ hours, a world record.

1893 Queen Empress 2-2-2-2 compound awarded a gold medal at Chicago World's Fair.

1897 First locomotives constructed in the Steel Works, 4-4-0s No 1501 and 1502. All previous locomotives had been built in the Old Works.

1900 4,000th locomotive completed, Jubilee class 4-4-0 No 1926 La France

Works ambulance room and hospital erected at north end of Mill Street

1903 No 9 Erecting Shop completed at Steel Works and after which Old Works used for repairs only

1911 5,000th locomotive completed, George the Fifth class 4-4-0 No 5000 Coronation

1913 Royal Visit by King George V and Queen Mary.

1923 LNWR became part of LMSR.

1926 Works reorganised and No 10 erecting shop built.

1930 Official 6,000th locomotive built, 2-6-0 No 13178

1937 Streamlined 'Princess Coronation' 4-6-2 built, No 6220 Coronation

1940s 161 Covenanter Army tanks built to Derby designs, also parts for heavy guns

7–8,000 men and boys employed throughout much of century and town housed over 45,000 people. By this time nearly all were dependent on the railway for their subsistence.

1948 Railways nationalised

1950 7,000th locomotive built, Ivatt Class 2, 2-6-2T No 41272

1951 First Standard class locomotive built for BR, 4-6-2 No 70000 Britannia

1957 First diesel locomotive built, 0-6-0 No D3419

1958 Last steam locomotive built at Crewe, 9F class 2, 2-10-0 No 92250.

1959 First main line diesel-electric locomotive built, Class 24, No D5030.

1962 Became part of BR Workshops Division

1970 Taken over by British Rail Engineering Ltd (BREL)

Examples of Engineering Innovations at Crewe

Allan's 'Crewe' goods, Grand Junction Railway

There were difficulties with broken crank axles on older engines so Alexander Allan, foreman of locomotives, on Grand Junction at Crewe, developed a new design using outside cylinders with the cylinders themselves situated in a massive arrangement of double framing. Between 1845 and 1858 large numbers of locomotives were built at Crewe for service on the Northern Division of LNWR, 158 with 2-2-2 wheel arrangement and 238 of 2-4-0 type. Engines of this type were the first to work over the formidable obstacle of Shap Summit in Westmoreland.

Lady of the Lake, Northern Division of LNWR

Designed by John Ramsbottom, 60 2-2-2 locomotives were built at Crewe between 1859 and 1865, originally intended for the Irish Mail traffic between London and Holyhead. Ramsbottom built engines that were the smallest and lightest that would do the work and the 'Ladies' worked well and were popular with their crews. They were the first locomotives to be equipped with apparatus for picking up water at speed, a system developed at Crewe under Ramsbottom. Engine No 229 Watt made a record non-stop run from Holyhead to Crewe with a special train carrying despatches in connection with the Trent dispute with the USA in 1862.

Webb's standard coal engines, LNWR

The LNWR was well known at one time as the largest joint-stock corporation in the world. Its princely revenue was derived very largely from its goods and mineral traffic and the first new engine design of Webb after

becoming Chief Mechanical Engineer in 1871 was an excellent 0-6-0 for heavy goods traffic. In later years the idea of a small 0-6-0 with cylinders no larger than 17" in diameter by 24" stroke doing 'heavy' work would seem strange; but at the time of their first introduction, in 1873, the 17 inch coal engines were among the most powerful freight engines in the country. They were extremely simple, in both design and construction, and very cheap and easy to build. As an experiment Webb set Crewe works a test to see how quickly one of these engines could be built. The engine was built and left the erecting shop under its own steam in 25 ½ hours. This class was an LNWR standard and construction of them continued for 19 years (1873-92). Eventually there were no fewer than 500 of them at work. During this time there were no changes in design. Those built in 1892 were exactly the same as those of the first batch of 1873 – a striking tribute to the effectiveness of the original design. No fewer than 227 out of the original 500 were still in service in 1923 when the LNWR passed into the London and Midland & Scottish system.

Precursor class 4-4-0, LNWR

Webb's large scale experiment with compound locomotives had left the LNWR short of powerful and reliable engines, and the first task of his successor George Whale was to provide for that deficiency. Under his direction a simple straightforward 4-4-0 was designed in record time at Crewe Works. In some ways it was a much larger version of the 'Precedent' class 2-4-0 but with the important difference of having Joy valve gear instead of the Allan straight-line motion. Within 10 months from the time of Webb's retirement the first engine of the new class No 512 Precursor was on the road, and it proved an immediate and outstanding success. There were no teething troubles and after a first batch of ten, constructed at intervals between March and June 1904 quantity production began in earnest and a level 100 of them were completed at Crewe between October 1904 and May 1906. At times they were turning them out at the rate of 2 per week and the engines proved invaluable to the Running Department by their almost unfailing reliability, taking loads of 350 to 400 tons on schedules demanding average speeds of 52 to 55 mph from start to stop. Twenty more of them were constructed in 1907.

1912 George the Fifth class 4-4-0 No 5000 Coronation, LNWR

These engines were designed and built at Crewe under the direction of C J Bowen-Cooke and are sometimes dismissed as nothing more than a superheated version of the Whale 'Precursor'. It is true that the chassis, wheels, boiler barrel, and firebox were the same; but the application of the Schmidt superheater was accompanied by a re-design of the cylinders and by the use of piston valves instead of slide valves. The improvement in haulage capacity and thermal efficiency was very striking. In relation to their size and weight the 90 engines of this class did some phenomenal work. It was not unusual for them to take trains of 390 tons behind the tender up the 1 in 75 of Shap incline without assistance and at the southern end of the line they would make start-to-stop average speeds of 55 mph to 58 mph between Euston and Crewe with loads up to 450 tons. By the standards of 1910-1916 (their heyday) they were economical in fuel and repairs considering the very hard work they were called on to do. Because of the success of the 'George the Fifth' class many of the non-superheated 'Precursors' were rebuilt with piston valves, superheaters and extended smoke boxes making them identical to the George the Fifties in everything except the quite superficial difference of the separate splashers for the leading pair of coupled wheels instead of the continuous splashers.

Key Personnel of the Crewe Works

Locomotive Superintendent or Chief Mechanical Engineers

Francis Trevithick 1843-57

John Ramsbottom 1857-71

Francis William Webb 1871-1903

George Whale 1903-09

C J B Cooke 1909-20

H P M Beames 1920-21; 1922-30

George Hughes 1922-25

Sir Henry Fowler 1925-30

E J H Lemon 1931

Sir William A Stanier 1932-44

C E Fairburn 1944-45

H G Ivatt 1946-51

R A Riddles 1948-53

R C Bond 1954-68

Works Manager

(From 1853-1910 official title was chief indoor assistant to locomotive superintendent or CME)

Alexander Allen 1843-53

Thomas Hunt 1853-61

F W Webb 1861-66

Thomas Stubbs 1866-70

H W Kamnf (*acting*) 1870-71

H W Kampf (drawing) 1878-71

- Thos Wm Worsdell
- Charles Dick 1882-88
- Henry Douglas Earl 1888-1903
- A R Trevithick 1903-10
- W H Warneford 1910-16
- H P M Beames 1916-20
- F Arnold Lemon 1920-41
- Roland C Bond 1941-46
- James Rankin 1946-47
- Irvine C Forsyth 1948-60
- Ellis R Brown 1960-62
- J C Spark 1963-64
- J J C Barker-Wyatt 1964-67
- George Oldham 1967-74
- C H Garratt 1974-77
- F O De Nobriga 1977-

- Chief Draughtsman
- Charles Wyatt 1848-54
- William Williams 1855-59
- F W Webb 1859-61
- Thomas Stubbs 1861-66
- H W Kampf 1866-71
- Charles Dick 1872-77
- H W Norman 1878-88
- J N Jackson 1888-1919
- F M Grover 1920-32
- T F Coleman 1932-35

After 1935 the Crewe drawing office took a subsidiary part in locomotive design to the headquarters office at Derby

Main Series Drawings List

Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
1	C	42		General arrangement and details of damper gear.	11 Oct 1884	3 Jun 1905	6'0" Compound Engine	References to 18" goods & 6'6" compound	FALSE
1	C	119		Underframe for coupe	17 Dec 1887	9 Apr 1890		Alterations made for Mr Footners inspection carriage	FALSE
1	C	175		Details of leading axle box	22 Jul 1915		6'6" 4-cylinder passenger engine (straight link)	Also 6'0" 4-cylinder passenger engine (straight link)	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
1	C	489		Steam pipe expansion joint	22 Aug 1888	28 Feb 1895	5'0" compound goods tank engine	Includes diagram showing position of joint	FALSE
2	C	637		Arrangement & details of springs for low pressure driving wheels	3 Dec 1888	5 Sep 1890	5'0" Compound goods engine	References to 6'0" & 7'0" engines	FALSE
2	C	686		Details of cast steel leading & driving wheels	7 Jan 1889		7'0" Compound passenger engine		FALSE
2	C	794		Cast iron footplate	25 Nov 1874	15 May 1889	6'6" Four wheel coupled passenger engines		FALSE
2	C	845		Arrangement of balance weights	1 May 1889		6'0" Four wheel coupled passenger engine (Rebuilt)		FALSE
1	C	84		14" Feed water heater - cast steel tube plate (see other information column)	21 Feb 1890			Actual number is 84B	FALSE
2	C	880		Arrangement of brake levers & gear	18 May 1889		6'0" Four wheel coupled passenger engine (Rebuilt)		FALSE
2	C	929		Details of water gauge fittings for locomotives	4 Jun 1920			Used for a number of locomotive classes	FALSE
2	C	972		List of pins & studs	31 Jul 1889	20 Jun 1892	6'6" Straight link rebuilt passenger engine		FALSE
2	C	974		List of special & standard bolts	31 Jul 1889		6'6" Straight link rebuilt passenger engine		FALSE
3	C	1188		Arrangement of balance weight for wheels	30 Jan 1890		DX goods engine		FALSE
3	C	1205		Cock for automatic vacuum brake	8 Feb 1890	2 Sep 1920		Alterations for tank engines fitted with Duplex vacuum gauge & release valve "M" dated 2 Sep 1920	FALSE
3	C	1315		Details of stay plate	5 Feb 1887	16 Apr 1890	5'0" Compound goods tank engine	Also for 5'0" side tank passenger engines. Altered in red 16.4.90	FALSE
3	C	1340		Lubricator for regulator valve in smokebox	1 Jul 1904		4'6" & 5'6" Four wheeled coupled side tank. 6'0" & 6'6" Four wheel coupled pass. engines S/L	Also for high pressure steam pipes of 6'0" & 7'0" compound engines	FALSE
3	C	1349		Standard connection for feed pipes between engine & tender	30 Dec 1907				FALSE
3	C	1349		Connection for feed pipe between engine & tender	30 Nov 1900			Part copy	FALSE
3	C	1416		Automatic vacuum brake - detail of ejector	30 Jan 1907	10 May 1912	This drawing used on 26 classes	After 20 May 1912 this ejector to be used only on engines not fitted with air pump	FALSE
3	C	1429		Smokebox	5 Jul 1890		6 Wheel coupled coal engine		FALSE
3	C	1438		Auto vacuum brake	11 Jul 1890		DX engines (Rebuilt)		FALSE
3	C	1443		Spanner for glass gauge nut for Wilson's lubricator. Also spanner for gland nuts of vacuum pump	none			Drawn in the LMS drawing office, Crewe	FALSE
3	C	1450		Boiler	9 Jul 1890	17 Jun 1912	4'6" Four wheel coupled side tank	Later dates refer to minor alterations	FALSE
3	C	1451		Coupling rods	Jan 1887	23 Nov 1894	5'0" Compound side tank goods engine		FALSE
3	C	1480		Boiler	9 Jul 1890	28 Jun 1905	18" Goods engine	Alterations on drawing for engines fitted with piston valves	FALSE
4	C	2229		Automatic vacuum brake double-back valves A and A1	18 Jan 1907		13 classes of engine		FALSE

Main Series Drawings List

Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
3	C	1461		Boiler	7 Feb 1890	28 Jun 1905	6'0" Rebuilt & 6'6" straight link passenger engines		FALSE
3	C	1477		Detail of smokebox with internal chimney	26 Jul 1890		5'0" DX 6 wheel coupled engine		FALSE
3	C	1462		General arrangement of auto vacuum brake	12 Jul 1890		4'0" Shunting engine		FALSE
3	C	1492		Elbows for exhaust pipes - automatic vacuum brake	29 Jun 1912		35 classes of engine		FALSE
1	C	184		General arrangement & details of cylinder cock gear			5'6" Compound passenger tank engine		FALSE
1	C	202		Arrangement & details of brake gear	27 Feb 1888		Coupe		FALSE
1	C	258		Coal bunker	1888		Coupe		FALSE
1	C	262		Leading & driving springs	13 Feb 1888		DX engine		FALSE
1	c	264		Central buffer & coupling	21 Mar 1888	30 Apr 1890	Coupe		FALSE
1	C	269		Details of disc & guides for high pressure valve motion	20 Mar 1885	24 Sep 1887	4'6" Compound passenger engine		FALSE
1	C	294		Leading & driving spring	13 Mar 1888		2'6" Shunting engine		FALSE
1	C	295		Leading spring	13 Feb 1888		6'0" Four coupled passenger engine		FALSE
1	C	337		Detail of trailing springs	27 Jun 1917		4'6" Four coupled side tank engine 2-4-2 type		FALSE
1	C	337		Trailing spring	14 Dec 1908	19 Nov 1943	4'6" Eight wheel, 4'3" Coal & 5'6" Passenger side tank engines. 4'0" Shunting engine with crane.	Also 5'0" six wheel coupled straight link engine	FALSE
1	C	351		Detail of driving spring	27 Jun 1917	19 Nov 1943	4'6" Four coupled side tank engine 2-4-2 type		FALSE
1	C	392		Details of castings for valve motion	10 Apr 1885	7 Dec 1894	4'6" Compound passenger engine		FALSE
1	C	393		High pressure slide bars, valve buckle & piston rod	30 Apr 1885	11 Dec 1894	4'6" Eight wheel compound passenger engine		FALSE
1	C	398		Standard whistle stand. Arrangement for fastening to cab plate	4 May 1888		Standard		FALSE
1	C	401		Alteration of pump feed valve	30 Jun 1885	11 Jun 1888	4'6" Side tank compound engine		FALSE
4	C	2403		Cylinders 17" x 20"	4 Jun 1888	23 Jul 1903	4'6" 4-wheel coupled side tank engines		FALSE
1	C	451		Details of brake gear	2 Jul 1888		4'3" Special tank engine		FALSE
1	C	460		Details of brake gear	2 Jul 1888		Four wheel shunting engine		FALSE
1	C	462		Details of brake gear	2 Jul 1888	13 Jan 1923	4'3" Side tank coal engine		FALSE
2	C	524		Alteration to exhaust steam pipes to trailing tanks	19 Oct 1885	7 Feb 1895	4'6" Compound & 4'6" eight wheel side tank engines		FALSE
2	C	543		Details of cast brass steam pipes	30 Mar 1885	24 Sep 1894	4'6" Compound passenger engine		FALSE
2	C	564		Piston rod & slide bars	22 Jul 1886	25 Feb 1941	18" Goods engine		FALSE

Main Series Drawings List

Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
2	C	630		Diagram of connecting & coupling rods	18 Nov 1910				FALSE
2	C	642		Lubricators for high & low pressure connecting rods	27 Nov 1888		70" Compound passenger engine		FALSE
2	C	650		Cover for low pressure cylinder. 30" Diameter	5 Dec 1888		70" Compound passenger engine		FALSE
2	C	651		Discs & guides	11 Dec 1888		70" Compound passenger engine		FALSE
2	C	652		Radius rod bracket for high pressure motion	8 Dec 1888		70" Compound passenger engine		FALSE
2	C	653		Detail of frame plates	11 Dec 1888		70" Compound passenger engine		FALSE
2	C	657		Reversing screw bracket	17 Dec 1888		70" Compound passenger engine		FALSE
2	C	658		Valve motion for high pressure cylinders	14 Dec 1888		70" Compound passenger engine		FALSE
2	C	678		Low pressure motion	7 Jan 1889		70" Compound passenger engine		FALSE
2	C	681		Driving splasher	10 Jan 1889		70" Compound passenger engine		FALSE
2	C	690		Special steam box for whistle stand	19 Jan 1889		70" Compound passenger engine		FALSE
2	C	699		Cover box for radius rod	25 Jan 1889		70" Compound passenger engine		FALSE
2	C	707		Steps for outside footplate	1 Feb 1889		70" Compound passenger engine		FALSE
2	C	712		Alteration to tie rods for hornblocks	4 Feb 1889		Special DX		FALSE
2	C	792		Cast steel motion plate	3 Oct 1890		5'6" & 6'6" Four wheel coupled passenger engines		FALSE
2	C	795		Standard internal chimney	25 Mar 1889		Locomotive engines		FALSE
2	C	810		Details of reversing valve on 20" low pressure cylinder	5 April 1889		70" Compound passenger engine		FALSE
2	C	823		No 2 portable gas reservoir	29 Jan 1918				FALSE
2	C	829		Arrangement for adjusting springs for radial wheels 42-ft carriages	17 Apr 1889				FALSE
2	C	834		Spring and tie rod brackets for 42-ft carriage frame	17 Apr 1889				FALSE
2	C	849		Standard regulator valve on smokebox tube plate	21 May 1925		Standard		FALSE
2	C	886		Panel plates	25 May 1889		6'0" 4-wheeled coupled passenger engine (rebuilt)		FALSE
2	C	917		Automatic vacuum brake air-pump 5in x 24in	28 Oct 1898	3 Nov 1937	6'6" 4-wh coupled straight link, 6ft 4-wh coupled rebuild, 5ft 6in 4-wh coupled side tank		FALSE
2	C	937		Side tank	29 Jun 1889		4'3" coal engine		FALSE
2	C	946		Standard steam jet blow pipe for locomotives	19 July 1889			32 1/16in holes for 4ft 6in side tank engines working on Metropolitan District line	FALSE

Main Series Drawings List

Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
4	C	1978		List of plates and bars, attachment to drawing 1978	none				FALSE
3	C	1081		30-ton twin-boiler trolley	7 Apr 1906				FALSE
3	C	1080		Detail of standard hydraulic buffers - FW Webb's system	8 Nov 1889				FALSE
3	C	1027		Portable oil tank for Wolverton	2 Apr 1921				FALSE
3	C	1000		Arrangement of leading sandbox gear and details	16 May 1887		4'6" side tank compound passenger engine		FALSE
3	C	1072		Special for engine working at the steel furnaces	1 Oct 1923		2'6" shunting engine	Also numbered H304	FALSE
3	C	1127		Low-pressure crank axle	17 Dec 1889	5 Nov 1891	4'6" side tank compound passenger engine	Cancelled and replaced by tracing no. 3373	FALSE
3	C	1372		Covering plates	none		5'6" 4-wheel coupled side tank passenger engine		FALSE
3	C	1374		Frame plates	13 Mar 1845	19 Dec 1946	5'6" side tank passenger engine		FALSE
3	C	1192		List of pins and studs	30 Jan 1890	20 Jun 1892	6'0" 4-wheeled coupled passenger engine (rebuilt)		FALSE
3	C	1186		Lists of special and standard bolts	13 Jan 1890		6'0" 4-wheeled coupled passenger engine (rebuilt)		FALSE
3	C	1232		Automatic vacuum brake, elbows and bleeding end	14 Jun 1915		21 classes of engine		FALSE
3	C	1247		Details of glands and bushes for high-pressure and low-pressure cylinders	6 Mar 1890		7' compound passenger engine		FALSE
4	C	2003		Cylinders 17" x 24"	8 Dec 1890	23 Jul 1903	6'6", 6'0", 5'6" straight link pass. engines, 5'6" side tank goods engines		FALSE
4	C	1505		Automatic vacuum brake - standard swan necks	none		4'3" six wheel coupled coal engine (for overseas - Egypt)	Cast iron, used on back of tender	FALSE
4	C	1520		Details of hinges for smokebox door	8 Jun 1910		DX engines, also used for special tank engines		FALSE
4	C	1576		Coupling rods	15 Jul 1886		18" goods engine		FALSE
4	C	1575		General arrangement of ashpan	4 Mar 1887		5' compound goods tank engine	Adapted, also used on 5'6" side tank passenger engines	FALSE
4	C	1757		Automatic vacuum brake, double-back valves B and B2	16 Apr 1915		15 classes of engine		FALSE
4	C	2417		Cab	6 Feb 1891	26 Nov 1928	5'6" side tank passenger engine		FALSE
4	C	2424		General arrangement of injectors, back valve and new sanding gear	none		18" goods engine		FALSE
4	C	2455		Automatic vacuum brake, details of steam valves (stop and regulating)	21 Feb 1891	Jul 1912	Engines fitted with steam brake	For steam valve for engines fitted with vacuum brake see drawings 18286	FALSE
4	C	2522		Automatic vacuum brake, detail of steam brake and air valve	19 Mar 1891	Jun 1912	Engines fitted with steam brake	This valve not used for engines fitted with vacuum brake, see drawing no 18283	FALSE
4	C	2578		Frame	26 Oct 1904	6 Aug 1924	4'3" six-wheel coupled special tank engine		FALSE
4	C	2615		Automatic vacuum brake, diagram of air pumps for various classes of engine	none		9 classes of engine		FALSE
4	C	2636		Detail of high-pressure cylinder covers and piston	12 May 1891		7' compound passenger engine, 8-wheeled	Drawing used also for 6' compound 8-wheeled	FALSE

Main Series Drawings List

Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
4	C	2823		Sand gear	9 Jan 1908	4 Dec 1934	5'6" side tank passenger engine	Bottom of cone altered, see drawing C19913	FALSE
4	C	2858		Boiler	15 Jun 1891	29 Jun 1905	7'0" 8-wheeled compound passenger engine	Also used for 6'0" 8-wheeled compound engines	FALSE
4	C	2889		Detail of valve saddle for high-pressure cylinder	25 Jun 1891		7'0" 8-wheeled compound passenger engine		FALSE
4	C	2960		General arrangement of automatic vacuum brake	8 Nov 1890	13 Sep 1920	4'3" straight link coal engine		FALSE
5	C	3748		Standard radial axle-box (12" journal), F.W. Webb's Patent	16 Jan 1892		4 classes of engine		FALSE
5	C	3645		Casing over steam chest	18 May 1887		4'6" compound side tank engine		FALSE
5	C	3641		Arrangement of steam automatic vacuum brake	3 Dec 1891		"Cornwall"		FALSE
5	C	3627		Double vacuum brake sack	14 Feb 1890		Probably a standard fitting - no class quoted		FALSE
5	C	3585		Wheel turntable	3 Dec 1913		Works fitting		FALSE
5	C	3511		Straight link valve motion for locomotive engines	12 Dec 1900		6'6" and 6'0", 4-wheel coupled passr. and 5'6" side tank		FALSE
5	C	3394		Boiler	25 May 1908		4'0" 4-wheeled shunting engine		FALSE
5	C	3360		General arrangement of auto vacuum brake	25 Jun 1890		6'6" 4-wheeled coupled straight link passenger engine		FALSE
5	C	3343		Detail of cast iron balanced wheels	23 Oct 1891		4'0" shunting engine		FALSE
5	C	3335		Steam brake - details of cylinder and pull rods	8 Mar 1899	Jun 1912	17 classes of engine		FALSE
5	C	3298		Tender axle box for journal 4 1/8" x 8"	24 Sep 1900	28 Jan 1914	Tenders - no type specified		FALSE
5	C	3189		Arrangement of doors at front end of repairing shop also offices, for Rugby	28 Aug 1891		Building		FALSE
5	C	3186		Vacuum brake, driver's brake valve	30 Oct 1882		No class specified		FALSE
5	C	3179		General arrangement of auto vacuum brake	2 Sep 1891		6'0" 4-wheeled coupled straight link passr. engine, rebuilt		FALSE
5	C	3170		General arrangement of auto vacuum brake gear - end views	29 Oct 1890		5'6" side tank passenger engine		FALSE
5	C	3169		General arrangement of auto vacuum brake gear - elevation	29 Oct 1890		5'6" side tank passenger engine		FALSE
5	C	3066		Automatic vacuum brake - cast iron box on cab for connection to air and steam valves	25 Aug 1891	Jun 1912	General		FALSE
5	C	3168		General arrangement of automatic vacuum brake	22 Oct 1891		6'6" compound passenger engine		FALSE
4	C	2815		Diagrams of boilers for goods engines	28 May 1891		Goods engines		FALSE
6	C	4826		Details of piston and cylinder covers	22 Dec 1908		4'3" 8-coupled coal engine		FALSE
6	C	4690		Leading driving and trailing axle boxes	18 Dec 1930	26 Jan 1944	4'3" 6-wheeled coupled coal engine	Used for six other classes	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
6	C	4687		Position of carrier for keeping longitudinal stay of the lead plug	7 Mar 1892		No class specified		FALSE
6	C	4525		Arrgt. of pipes for exhausting steam from drivers' valve & steam brake cyl. into ashpan	11 Mar 1892		No class specified		FALSE
6	C	4262		Trailing hornblock	31 Dec 1908	19 Dec 1946	4'3" 6-wheeled coupled coal engine	Hornblock bolts replaced by cold-turned rivets	FALSE
6	C	4261		Driving hornblock	31 Dec 1908	26 Sep 1946	4'3" 6-wheeled coupled coal engine	Hornblock bolts replaced by cold-turned rivets in 1946	FALSE
6	C	4260		Leading hornblock	31 Dec 1908	19 Dec 1946	4'3" 6-wheeled coupled coal engine	Hornblock bolts replaced by cold-turned rivets in 1946	FALSE
6	C	4243		Boiler for small tug boat - Shropshire Union Canal Company	19 Jan 1880		Tug boat		FALSE
6	C	4241		Details of boiler for steam tug - Shropshire Union Canal Company	6 Feb 1974		Tug boat	Two boilers required	FALSE
6	C	4177		Step and keep for centre bearing	13 Apr 1920		George V class		FALSE
6	C	4171		Detail of centre bearing	21 Dec 1910	1 Oct 1942	18" goods engine		FALSE
6	C	4103		Cylinders	28 Jun 1886	25 Oct 1909	18" goods engine		FALSE
7	C	5999		Details of reversing shaft	22 Jul 1904		4'3" & 5' 4-cyl. compound and 4'3" 8-coupled coal engine		FALSE
7	C	5974		Details of valve motion	20 Oct 1908		4'3" 8-coupled coal engine		FALSE
7	C	5957		8mm restarting injector	2 Aug 1892		Standard		FALSE
7	C	5909		List of special and standard bolts	13 Jul 1892		5'0" 6-wheeled coupled goods engine		FALSE
7	C	5908		List of pins and studs	13 Jul 1892		5'0" 6-wheeled coupled goods engine		FALSE
7	C	5861		Revised arrangement of carrying firebars - see 'other information' column	18 Nov 1918		4'3" 8-coupled coal engine (C, C1, B and E classes)	This drawing is a 'Rider' to 5861	FALSE
7	C	5861		Detail of ashpan	No date - <1918		4'3" 4-cylinder compound coal engine		FALSE
7	C	5827		Pumping engine for Llandoverly station	1 Aug 1899	10 Dec 1904	Pumping engine	Reference to Holyhead, Hednesford and Leighton 1871	FALSE
7	C	5742		Trailing spring	12 Nov 1907		4'3" 8-wheeled coupled coal engine		FALSE
7	C	5599		General arrangement and details of spring gear	20 Sep 1920		4'3" 8-wheeled coupled coal engine	Also used for 4'3" 4-cylinder compound coal engine	FALSE
7	C	5440		General arrangement of automatic vacuum brake	7 May 1892		18" express goods engine		FALSE
7	C	5380		Cast steel wheels	24 Jan 1887	28 Apr 1892	5'0" compound goods tank engine		FALSE
7	C	5293		Exhaust pipes between steam brake cylinder, driver's brake valve and ashpan	26 May 1892	9 June 1893	5'6" 6-wheeled and 4'6" 8-wheeled side tank passenger engines		FALSE
7	C	5270		Slide valve and buckle	30 Sep 1930		4'6" 4-wheeled coupled side tank engine		FALSE
7	C	5227		Platform and framing for hoist, new iron foundry	28 May 1867				FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
7	C	5169		General arrangement of auto vacuum brake - end views	20 Sep 1890		4'6" 4-wheeled coupled, eight wheeled side tank engine		FALSE
7	C	5167		General arrangement of auto vacuum brake - elevation	20 Sep 1890		4'6" 4-wheeled coupled, eight wheeled side tank engine		FALSE
7	C	5109		Hydraulic arrangement for lifting core store doors - new foundry steel works	10 Nov 1881				FALSE
7	C	5108		Foundation for spring buckle machine	24 July 1871				FALSE
7	C	5134		Equaliser for hydraulic machinery	15 Oct 1871				FALSE
7	C	5053		Details of frame plates	3 Feb 1927	19 Dec 1946	4'3" side tank coal engine	Bolts replaced by cold-turned rivets in 1946	FALSE
7	C	5016		High pressure valve buckle and crosshead	4 May 1887		5'6" compound passenger tank engine		FALSE
8	C	6246		Slide valve and buckle	8 Mar 1922		5'6" 4-wheeled coupled passenger engine		FALSE
8	C	6746		Detail of high pressure crosshead	20 Sep 1920		4'3" 4-cylinder compound coal engine		FALSE
8	C	6733		Driving axlebox	5 Oct 1911	23 Nov 1944	6'6" straight link passenger engine - see other information	Driving and trailing wheels for 6'6" and 6'0" 4-coupled passr. engine (straight link) & 5'6" 4-coupled side tank	FALSE
8	C	6648		Details of side tanks and bunker	4 Feb 1927		4'3" 6-wheeled coupled side tank engine		FALSE
8	C	6726		Low pressure cylinder, 30" diameter 24" stroke	8 Feb 1893	21 Jan 1897	4'3" compound coal engine		FALSE
8	C	6273		List of pins and studs	1 Oct 1892		5'6" side tank passenger engine		FALSE
8	C	6175		Diagram sheet of axleboxes	8 Jan 1907		Many classes of engine		FALSE
8	C	6164		Boiler and mountings for "Rocket"	16 Sep 1892		"Rocket"		FALSE
8	C	6132		Detail of connecting rod	14 May 1898		18" goods engine and six other classes	For details of large end see low pressure rod for 7'0" compound engine - see tracing 6120	FALSE
8	C	6127		General arrangement of oil box for leading axle	8 Mar 1893		6'6" straight link engine and 6'0" rebuilt engine		FALSE
8	C	6111		Details of high pressure connecting rod	13 Aug 1920		4'3" 4-cylinder compound coal engine		FALSE
8	C	6057		Diagram sheet of ashpans	13 Jul 1892		All classes of engine		FALSE
8	C	6052		List of special and standard bolts	22 Jul 1892		5'6" side tank passenger engine		FALSE
8	C	6025		Details of reversing gear	27 Aug 1907		4'3" 6-coupled coal engine		FALSE
8	C	6736		Cylinders for 4 1/4" dia x 6" stroke for tramway engine and locomotive crane	30 May 1922		Tramway engine and locomotive crane		FALSE
9	C	7051		Details of steam brake gear	19 May 1893		4' 3" 8-wheeled compound coal engine		FALSE
9	C	7050		General arrangement of steam brake gear	11 Dec 1923		4' 3" 8-coupled coal engines		FALSE
9	C	7042		Details of steam pipes	17 May 1893		4' 3" compound coal engine		FALSE
9	C	7040		Details of sandboxes and brackets	17 May 1893		4' 3" compound coal engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
9	C	7031		Details of covers and casings for low pressure cylinder	12 May 1893		4' 3" 8-wheeled compound coal engine		FALSE
9	C	7020		Standard 9mm re-starting injector	5 Dec 1901		Many engines		FALSE
9	C	7005		Auto vacuum brake - details of unions used in connection with air & steam valves etc.	29 Nov 1911		Standard fittings		FALSE
9	C	7002		Details of steel castings for steam brake	18 May 1893		4' 3" 8-wheeled compound coal engine		FALSE
9	C	6952		Details of high pressure slide bars and piston rods	20 Sep 1920		4' 3" four cylinder compound coal engine		FALSE
9	C	6948		General arrangement of whistle stand - cast iron	4 Jun 1920		13 different engines	retracing of earlier 6948 drawing	FALSE
9	C	6948		General arrangement of whistle stand	11 Mar 1907		14 different engines		FALSE
9	C	6858		Details of slide valve and buckle	7 Apr 1927		5' 0" six-coupled goods engine (special DX) and 6 other engines		FALSE
9	C	6854		Detail of coupling rods	10 Aug 1920		4' 3" 4 cylinder compound coal engine		FALSE
9	C	6827		Diagram sheet of sand valve nozzles	3 Feb 1926		Many engines - almost a standard fitting		FALSE
9	C	6792		Details of castings for spring gear	27 Nov 1906	21 Dec 1943	4' 3" 8-wheeled coupled coal engine and 8 other engines		FALSE
9	C	6791		Motion details for dwarf locomotive, Crewe Works 22 January 1862	30 May 1922		Dwarf locomotive for shunting		FALSE
9	C	6782		Driving and trailing axlebox	6 Oct 1911	22 Nov 1944	4' 6" side tank 6- and 8-wheeled passenger engines		FALSE
10	C	7904		Details of the pick up	27 May 1887		5' 6" compound passenger tank engine		FALSE
10	C	7886		Details of ash pan	26 Jun 1885		4' 6" compound side tank engine		FALSE
10	C	7885		General arrangement and details of high and low pressure cylinder cock gear	2 Jul 1885		4' 6" side tank compound engine		FALSE
10	C	7861		Valve motion and spectacle plate for dwarf engine, Crewe Works 22 January 1862	30 May 1922		Dwarf locomotive for shunting		FALSE
10	C	7860		Details of hornblock and axlebox	14 Nov 1923		1' 4" 4-coupled tramway engine (18" gauge outside cylinders)		FALSE
10	C	7853		Cylinder cover and motion for tramway engine, Crewe Works 20 December 1876	30 May 1922		Tramway locomotive, outside cylinders		FALSE
10	C	7812		Details of standard blow off cocks	22 Oct 1901		Standard fitting		FALSE
10	C	7754		Buffer for engines and tenders	1 Nov 1893	29 Dec 1922	Standard fitting	Retracing of earlier drawing	FALSE
10	C	7629		Artificial leg	16 Oct 1885		Artificial leg	Two off - no statement as to who they were for	FALSE
10	C	7586		Sketches of iron church, Earle Street, Crewe, transferred to Stewart Street 1912	26 Oct 1893	1912	Iron church		FALSE
10	C	7527		2000-gallon tank	16 Oct 1893	13 Apr 1916	Standard tender		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
10	C	7483		Link and valve spindle guide	27 Aug 1858	28 May 1861	"Cornwall"		FALSE
10	C	7482		Reversing shaft and lifting link	27 Aug 1858	5 Dec 1894	"Cornwall"		FALSE
10	C	7481		Hand reversing gear	27 Aug 1858	7 Dec 1894	"Cornwall"		FALSE
10	C	7460		Standard piston rod and crosshead	14 May 1924	4 Aug 1940	5' 0" 6-wheeled coupled goods engine (special DX) & 11 other engines		FALSE
10	C	7241		General arrangement of hopper	17 Sep 1896		4' 3" compound coal engine		FALSE
10	C	7223		Arrangement of slide bars	6 Jun 1924		6-wheeled coupled (DX) goods engines		FALSE
10	C	7188		Arrangement of cylinder cock gear	11 Jul 1893	16 Feb 1897	4' 3" compound coal engine		FALSE
10	C	7130		Arrangement of high pressure valve motion	14 Jun 1893	19 Aug 1897	4' 3" compound coal engine		FALSE
10	C	7129		Details of castings for cylinder cock gear	14 Jun 1893	16 Feb 1897	4' 3" compound coal engine		FALSE
10	C	7125		Arrangement of pipes for exhausting steam from steam brake cylinder and driver's valve into ashpan	9 Jun 1893		Not specified		FALSE
10	C	7107		Dip for water pick-up apparatus	26 Oct 1937		Not specified		FALSE
11	C	8082		High pressure cylinders	17 Jan 1885		4' 6" 4-wheeled coupled, 8 wheeled tank engine (2-4-2)		FALSE
11	C	8081		Details of cast brass pipes	6 May 1885		4' 6" compound side tank engine (same as drawing 8082)		FALSE
11	C	8080		Detail of steam chest cover	28 Jun 1920		5' 0" DX goods engine and 6 other engines		FALSE
11	C	8027		Drain valve for vacuum pipes and steam brake cylinder	17 Aug 1942		Standard fitting		FALSE
11	C	8027		Drain valve for vacuum pipes, car heating & steam brake cylinder	9 Apr 1927		Standard fitting		FALSE
11	C	8016		Details of low pressure valve motion	21 Mar 1885	11 Dec 1894	4' 6" compound passenger engine		FALSE
11	C	8015		High pressure valve motion	19 Mar 1885	7 Dec 1894	4' 6" compound passenger engine		FALSE
11	C	8011		Details of spring gear	28 Jun 1917	31 Dec 1918	4' 6" 4-coupled side tank engine, 2-4-2 type		FALSE
11	C	8006		General arrangement and details of trailing spring gear	none shown		5' 0" compound goods tank engine		FALSE
11	C	8001		Details of regulator valve	26 Mar 1909		2' 6" 4-coupled shunting engine		FALSE
12	C	8972		Arrangement of condensing valves and exhaust pipes in smokebox	12 Jun 1894		4' 6" 8-wheeled side tank passenger engine		FALSE
12	C	8949		Boiler	30 Apr 1907	20 Mar 1939	4' 3" special tank	Version also used on Dundalk and Greenore Railway, Ireland	FALSE
12	C	8831		Detail of valve motion	5 Dec 1864	19 May 1896	7' 6" wheel for passenger engine D.D. (?)	Later used for 4' 3" 3-cylinder compound coal engine 19 May 1896	FALSE
12	C	8807		Diagram sheet of slide valves for locomotives	13 May 1907		Many passenger and goods engines	Some fitted with piston valves and some with flat valves	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
12	C	8756		Diagram sheet of drawbars used for locomotives	21 Jun 1916		Many passenger and goods engines	Part copy	FALSE
12	C	8756		Diagram sheet of drawbars used for locomotives	21 Feb 1908 (?)		Many passenger and goods engines	Date unclear	FALSE
12	C	8707		Trailing end tank	21 Jun 1922		4' 6" 4-wheels, 8-wheeled coupled side tank (2-4-2)		FALSE
12	C	8582		Stephenson's valve motion	12 Feb 1927		5' 0" and 4' 3" 6-wheeled coupled engines	Includes 5' 0" engine for Dundalk and Greenore Rly	FALSE
12	C	8582		Valve motion	12 Dec 1900		6-wheeled coupled goods engine DX	Same drawing as other of same number	FALSE
12	C	8498		General arrangement of smokebox	27 Feb 1894		4' 6" side tank passenger engine		FALSE
12	C	8443		Leading and trailing drawbars	13 Dec 1893	9 Aug 1910	Several side tank engines		FALSE
12	C	8413		Smoke box plates	8 or 9 Mar 1887		5' 6" compound goods tank engine		FALSE
12	C	8364		Detail of tank stay bracket to boiler	2 Mar 1887		5' 0" compound goods tank engine		FALSE
12	C	8363		Front and trailing buffer plates	15 Feb 1887	21 Mar 1895	5' 0" compound goods tank engine		FALSE
12	C	8360		Front cover plates	24 Jun 1885		4' 6" side tank compound engine		FALSE
12	C	8359		General arrangement of lagging for high pressure cylinders	24 Aug 1885		4' 6" side tank compound engine		FALSE
12	C	8456		Lagging plate for low pressure cylinder	14 Aug 1885		4' 6" side tank compound engine		FALSE
12	C	8355		Smoke box	19 Jun 1885	4 May 1887	4' 6" side tank compound engine		FALSE
12	C	8249		Reversing gear for tramway engine, Crewe Works Oct 1875	30 May 1922		Tramway loco	Reference on drawing to "axle same as for 'Billy' "	FALSE
12	C	8210		Cover plates for pipes through footplate	18 Mar 1905		Many locomotives		FALSE
12	C	8155		Details of 12" journal for radial axlebox	16 Feb 1914		5' 6" 8-wheeled side tank & 5' 0" 6-wheeled coupled side tank		FALSE
12	C	8148		Standard joints	7/11 Nov 1893		Standard	All joints india rubber except where otherwise stated	FALSE
12	C	8117		Detail of eccentric and eccentric rod	28 Mar 1924		Unknown engine and 3 types of 6-coupled engine		FALSE
13	C	9933		Reversing shaft bracket on frame to be used after 11 April 1921	11 Apr 1921	18 Aug 1925	18 inch goods engine & 7' 0" four coupled passenger engine		FALSE
13	C	9928		Dust plates for axle boxes	4 Dec 1894		Mr Webb's coupe		FALSE
13	C	9801		Eccentric & valve rods for locomotives	20 Oct 1894		General		FALSE
13	C	9795		General arrangement & details of steam reducing valve for carriage heating apparatus	30 Jan 1908		7 Classes of locomotive		FALSE
13	C	8779		Steam brake	20 Aug 1885	5 Sep 1918	Rebuilt DX engines		FALSE
13	C	9732		Cylinders 14 inch Dia. X 20 inch stroke	13 Sep 1894		4ft shunting engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
13	C	9731		Standard tyre sections	19 Feb 1921		Locomotives & tenders		FALSE
13	C	9675		Standard dome for locomotive boilers	10 Jun 1915		Standard		FALSE
13	C	9662		Crank pins	24 Jan 1887	29 Nov 1894	5ft compound goods tank engines		FALSE
13	C	9661		High pressure crank pin	29 Apr 1885		4' 6" eight wheeled compound passenger engine		FALSE
13	C	9641		2' 9" Wheel centre	26 Apr 1939	29 Mar 1940	Eleven classes of locomotives		FALSE
13	C	9489		Details of trailing hornblock	1 Oct 1894	18 May 1898	18 inch goods		FALSE
13	C	9421		Details of cast iron release valves for auto vacuum brake	12 Feb 1920		Various classes		FALSE
13	C	9290		Steam valve for re-starting injector	29 Aug 1894		Various		FALSE
13	C	9276		Diagram of alterations to end of slide bars & motion plates to suit strengthened connecting rods	7 Aug 1894		Eight classes of locomotives		FALSE
13	C	9257		Diagram sheet of tender, trolley & misc. springs	13 Oct 1904				FALSE
13	C	9256		Diagram of locomotive springs	25 Jul 1911				FALSE
13	C	9118		Standard eccentric & eccentric rods	19 Mar 1922		6' 6" Straight link, 6' 0 rebuilt, 5'6 side tank engines		FALSE
13	C	9118		Standard eccentric & eccentric rods	2 Jul 1878	13 Jan 1931	6' 6" straight link, 6'0 rebuild, 5'6 side tank engines		FALSE
13	C	9071		Steam valve for injector	27 Aug 1920		Special tank engine		FALSE
13	C	9024		Lubricators & connections for locomotives	13 Jun 1894	19 Aug 1915			FALSE
14	C	10935		Diagram sheet of re-starting injectors and stand pipes	14 May 1904		Many classes		FALSE
14	C	10927		Diagram shewing position of oil-boxes on engines with metallic packing	12 Jun 1895	12 Dec 1921	10 classes		FALSE
14	C	10877		Standard locomotive water gauge - arrangement and details of shut-off cocks & gear	7 Aug 1885		Standard fitting		FALSE
14	C	10852		9-, 10- and 11-mm injector - details of clackbox and standpipes	30 Mar 1943		Standard fitting		FALSE
14	C	10851		Spring for locomotive engines - reference letter "W9"	9 Sep 1918	19 Nov 1943	6 classes	Part copy. "W9" refers to the type of spring.	FALSE
14	C	10851		Bearing springs for locomotive engines	before 1943		10 classes	Spring types W9, W13, E1	FALSE
14	C	10817		Diagram of cylinder and steam chest cocks	19 Jun 1895		Many classes		FALSE
14	C	10758		Glass water gauge with automatic valves and shut-off cocks	12 Jul 1895		Standard fitting		FALSE
14	C	10618		Headlight brackets for engines - diagram shewing standard position on buffer planks	14 May 1895		Standard fitting	Added for engines running over the MS&L	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
14	C	10564		Arrangement of headlight brackets for engines	10 May 1895		Engines running over the MS&L		FALSE
14	C	10517		Standard fire door for locomotives - general arrangement and detail of forgings	22 Feb 1900		Standard fitting		FALSE
14	C	10453		Detail of high pressure eccentrics	21 Mar 1895		7' 6" passr. rebuilt and 7'0" compound passr. engine - 8 wheeled		FALSE
14	C	10351		Diagram of standard buffer planks	12 Dec 1894		Standard fitting		FALSE
14	C	10339		General arrangement of screw reversing gear	22 Mar 1895		8' 6" passenger engine "Cornwall"		FALSE
14	C	10337		General arrangement and details of screw reversing gear	19 Mar 1895		8' 6" passenger engine "Cornwall"		FALSE
14	C	10310		Smokebox lubricator - details of waste water cup	29 Jan 1904		Many classes of compound and non-compound engine		FALSE
14	C	10180		Details of valve motion	22 Dec 1922		5' 0" coupled goods engine (18" cylinders)		FALSE
14	C	10130		Boiler	28 May 1891		2' 6" 4-wheels coupled shunting engine		FALSE
14	C	10118		Tender	26 Jun 1894		7' 0" compound engine - 8 wheeled		FALSE
14	C	10117		Diagram of trolleys	22 Oct 1891		Special wagons		FALSE
14	C	10098		Heating apparatus for carriages - arrangement of pipes and valves for tenders	5 Feb 1896		2000- and 2500-gallon tenders		FALSE
14	C	10097		Carriage heating apparatus - details of hose couplings between engine and tender	4 Mar 1896		Standard fitting		FALSE
14	C	10053		Bonded stores, Wigan, 30 cwt hand crane & details of top casting	9 Jan 1895		Crane at Wigan		FALSE
15	C	11698		Standard lubricator for cylinders fixed on smokebox	4 Aug 1904		Standard fitting		FALSE
15	C	11685		Duplex safety valve	31 Dec 1921		Standard fitting		FALSE
15	C	11684		Standard fire door for locomotives - details of castings	22 Feb 1909		Standard fitting		FALSE
15	C	11669		Slide valve and buckle	4 Jun 1924		6-wheels coupled goods engine (DX)	Also used for 6 other classes	FALSE
15	C	11666		Standard crosshead	18 Sep 1896		6-wheels coupled goods engine (DX)	Also used for 13 other classes	FALSE
15	C	11663		Standard equilibrium regulator valve	1 Jul 1925		13 classes of goods and passenger engine		FALSE
15	C	11657		Details of castings for leading sand gear	15 Aug 1896		4' 3" 6-wheels coupled coal engine and 4'3" side tank coal engine		FALSE
15	C	11652		Details of cast iron wheels	6 Aug 1896		4' 3" 6-wheels coupled coal engine and 4 other classes		FALSE
15	C	11649		Standard radial axlebox	18 Jun 1896		Standard fitting	4 classes listed	FALSE
15	C	11647		17" piston, cylinder cover and ends	12 Jun 1896	18 Jul 1935	6-wheeled coupled goods engine DX	8 classes listed	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
15	C	11623		Frame plates	3 Jun 1896		4' 3" 4-wheels coupled shunting engine		FALSE
15	C	11606		Details of spark arrestor	10 Mar 1925		4' 3" 6-coupled side tank, saddle tank and special tank engines		FALSE
15	C	11538		Details of outside covering plates	13 Mar 1945		4' 3" side tank coal engine		FALSE
15	C	11492		Detail of driving axle	25 Apr 1896		8' 6" passenger engine "Cornwall"		FALSE
15	C	11456		Diagram of asbestos felt lagging sheets for locomotive boilers	13 Dec 1909		Many classes		FALSE
15	C	11452		Arrangement of hydraulic press for high pressure crosshead	15 Apr 1896		4' 3" compound coal engine		FALSE
15	C	11402		Details of 14" journals for radial axle box	none		4' 3" 4-cylinder compound engine		FALSE
15	C	11396		Metallic packing for piston rods	13 Jun 1904		6 classes		FALSE
15	C	11344		Radial axle box 6 1/2" x 14" journal	20 Sep 1920		4' 3" 4-cylinder compound engine		FALSE
15	C	11321		Plan and elevations, new schools Pedley Street Crewe	12 Feb 1985		Pedley Street School, Crewe		FALSE
15	C	11245		Standard oil boxes and cups	16 Jun 1915	4 Dec 1935	Standard fitting		FALSE
15	C	11221		Carriage heating apparatus - arrangement of valves and pipes	17 Dec 1895		6' 6" passenger straight link engine		FALSE
15	C	11185	B	List of standard oil boxes and cups for locomotives	4 Mar 1913		25 classes		FALSE
15	C	11185		Standard oil boxes and cups	31 Jul 1915		Standard fitting		FALSE
16	C	11715		Steadying bracket for reversing screw plate	26 Jun 1896		4' 3" compound coal engine	Separate in roll, with pencil tracing of same. Rolled together with other 11715.	FALSE
16	C	11715		Steadying bracket for reversing screw plate	26 Jun 1896		4' 3" compound coal engine	Separate in roll, pencil tracing. Rolled together with other 11715.	FALSE
16	C	12546		General arrangement of carriage heating - elevation	25 Jan 1896		5' 6" side tank passenger engine		FALSE
16	C	12545		General arrangement of carriage heating apparatus - end views	25 Jan 1896		5' 6" side tank passenger engine		FALSE
16	C	12541		Details of hornblock, axlebox & pad for radial truck	18 May 1897		7' 0" 4-coupled compound and 9 other classes		FALSE
16	C	12540		Details of castings for smoke-box	15 May 1901		7' 0" 4-wheels coupled compound passenger engine (16" cylinders)		FALSE
16	C	12520		Details of inside and outside slide bars	13 May 1897	5 Sep 1917	7' 0" 4-wheels coupled passenger engine compound and non-compound		FALSE
16	C	12519		Details of castings for radial truck	28 Apr 1898		7' 0" 4-wheels coupled compound passenger engine	Also covers 5' 0" 6-coupled compound engine	FALSE
16	C	12518		Details of low pressure slide bars and piston rods	20 Sep 1920		4' 3" 4-cylinder compound coal engine	Not a duplicate of other drawing no. 12518	FALSE
16	C	12518		Details of piston rods	12 May 1897	23 Jan 1903	7' 0" 4-wheels coupled passenger engine	Also 4' 3" 8-coupled coal and 5' 0" 6-wheels coupled compound engine, both 4 cylinders. Not a duplicate of other drawing no. 12518	FALSE
16	C	12486		Detail of low pressure cylinder 19 1/2" x 24"	29 Apr 1897		7' 0" 4-wheels coupled passenger engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
16	C	12480		Details of axles and crank pins	1 May 1908		7' 0" 4-coupled compound passenger engine	Also covers 5' 0" 6-coupled compound engine	FALSE
16	C	12266		Standard cast steel wheel with standard tyre for tender	26 May 1919		3000-gallon tender		FALSE
16	C	12235		Detail of high pressure cylinder (15" dia x 24" stroke)	15 Jan 1897	24 Sep 1917	4' 3" compound coal engine		FALSE
16	C	12171	/3	Diagram sheet of hornblocks	18 Jan 1897	23 Oct 1946	Goods engines		FALSE
16	C	12171	/2	Diagram sheet of hornblocks	25 Nov 1905	24 Oct 1946	6 classes of goods engine		FALSE
16	C	12170	/2	Diagram sheet of hornblocks - sheet 2	16 Jun 1902	24 Oct 1946	5 classes of passenger engine		FALSE
16	C	12170	/1	Diagram sheet of hornblocks - sheet 1	17 Apr 1895	24 Oct 1946	12 classes of passenger engine		FALSE
16	C	12161		Arrangement of rubbing plates for trailing spring pillars	17 Dec 1896		4' 6", 5' 6" and 4' 3" side tank engines		FALSE
16	C	12122		Details for tool box	20 Mar 1909		Standard tenders		FALSE
16	C	12085		Tool box	20 Mar 1909		Standard tenders		FALSE
16	C	12042		Coupling rods	21 Oct 1896	28 May 1943	4' 3" 6-wheels coupled coal engine		FALSE
16	C	11895		Details of plates for smokebox	2 Sep 1896	9 Jul 1903	4' 3" 4-wheels coupled shunting engine		FALSE
16	C	11779		Automatic vacuum brake - arrangement of swan-necks & stop brackets for leading ends of engines	26 Jun 1896		7' 0" 6- and 8-wheeled compd. passr. engine, 5' 6" compd. side tank & 5' 6" side tank passr. engi&		FALSE
16	C	11707		Standard firebar carriers	28 Apr 1915	7 Nov 1918	Standard fitting		FALSE
17	C	12995		Detail of cylinders 18" Dia x 24" stroke fitted with piston valves	3 Dec 1897		5'0" six wheel coupled side tank engine		FALSE
17	C	12986		Details of plates for standard tanks	16 Mar 1914				FALSE
17	C	12934		Firebricks for locomotives	5 Nov 1897				FALSE
17	C	12895		Details of smokebox hopper	8 Feb 1898		7'0" four wheel coupled compound passenger engine		FALSE
17	C	12886		Rocking pin bracket for high pressure motion	15 Oct 1897		4'3" compound coal engine	This bracket & pin to be used on engines fitted with flat slide valves only	FALSE
17	C	12884		Detail of high pressure steam chest cocks fitted with automatic drainage valves	15 Oct 1897		4'3" compound coal engine		FALSE
17	C	12884		Details of high pressure & low pressure steam chest cocks	15 Oct 1897		4'3" compound coal engine	Original tracing	FALSE
17	C	12677		Standard leading wheels 3'9" dia. with 3" tyres	16 Apr 1915		10 classes of locomotives		FALSE
17	C	12673		Detail of steam pipes	2 Jul 1897		7'0" four wheel coupled compound passenger engine		FALSE
17	C	12668		Standard rolled sections	4 Dec 1906	12 Mar 1918			FALSE
17	C	12661		Lifting valve for hydraulic cranes					FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
17	C	12628		General arrangement of auto vacuum brake	4 Nov 1898		7'0" four wheel coupled compound passenger engine		FALSE
17	C	12598		Detail of spring for radial truck	2 Jun 1905	2 Mar 1943		8 classes of engine	FALSE
17	C	12598		Detail of spring for radial truck	31 May 1897		7'0" four wheel coupled passenger engine: compound & non-compound	Same number. as adjacent drawing but earlier date	FALSE
17	C	12594		Details of low pressure slide valve & buckle	28 May 1897	1 Mar 1898	7'0" four wheel coupled compound passenger engine	Further alteration dated 27 Jul 1898	FALSE
17	C	12579		Detail of low pressure slide valve & frame	26 May 1897	1 Mar 1898	7'0" four wheel coupled compound engine		FALSE
17	C	12571		Details of cast iron casing for outside steam chest cover	25 May 1897		7'0" four wheel coupled passenger engine: compound & non-compound		FALSE
17	C	12570		Details of forgings for radial truck	24 May 1905	10 Sep 1952	7'0" four wheel coupled compound passenger engine & 12 other classes		FALSE
17	C	12555		Steps for outside footplate	10 May 1897	8 May 1908	7'0" four wheel coupled passenger engine: compound & non-compound		FALSE
17	C	12550		Detail of lagging for boiler	19 May 1897	14 ? 1898	7'0" four wheel coupled passenger engine; compound & non-compound		FALSE
17	C	12569		Details of crossheads, rocking levers & brackets for valve gear	20 Sep 1920		4'3" four cyl. compound coal engine		FALSE
18	C	13973		Diagram of bolts for slide bars fitted with castle nuts	18 Jul 1916				FALSE
18	C	13753		Standard tender axle box	24 Oct 1902	17 Jun 1935	2000 gall. Tender		FALSE
18	C	13676		Cast steel wheels	11 Jul 1887	11 Mar 1892	18" goods engine		FALSE
18	C	13615		Carriage heating apparatus	8 Dec 1898		7'0" four wheel coupled compound passenger engine		FALSE
18	C	13598		Carriage heating apparatus	24 Nov 1898		18" express goods engine		FALSE
18	C	13575		Arrangement of carriage heating apparatus	29 Oct 1898		5'0" special DX engine		FALSE
18	C	13553		Boiler	21 Nov 1898	16 Jan 1911	7'0" four wheel coupled compound passenger engine		FALSE
18	C	13491		Diagram of webs for built up cranks	2 Feb 1907		27 classes		FALSE
18	C	13488		Detail of cast iron chequered footplate	20 Aug 1898	24 Oct 1916	4'3" six wheel coupled coal engine		FALSE
18	C	13482		Detail & diagram of cast iron continuation of footboard	6 Aug 1909	23 May 1919	24 classes		FALSE
18	C	13476	A	Carriage heating apparatus - end views	2 Aug 1898		4'6" eight wheel side tank passenger engine		FALSE
18	C	13476		Carriage heating apparatus - elevation & plan	2 Aug 1898		4'6" eight wheel side tank passenger engine		FALSE
18	C	13441		Detail of trailing axle box	28 Sep 1928	11 Feb 1944	6'6" four wheel coupled passenger engine. Classes: Geo.V, Precursor, 6' coupled side tank & 7' Renown		FALSE
18	C	13419	A	General arrangement of auto vacuum brake - end views	26 Jul 1898		5'0" six wheel coupled side tank engine		FALSE
18	C	13419		General arrangement of auto vacuum brake - elevation & plan	26 Jul 1898		5'0" six wheel side tank passenger engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
18	C	13386		Boiler with single plate barrel	17 May 1898	29 Mar 1939	18" goods engine		FALSE
18	C	13358		Compensating buffer arrangement	10 Jun 1899		Carriage underframe 50' feet		FALSE
18	C	13292		Diagram of standard auto restarting injector - LNW Railway Company	none		Standard fitting		FALSE
18	C	13269		Air pump and heating apparatus for carriages - end views	26 Apr 1898		4' 3" six wheel coupled coal side tank engine		FALSE
18	C	13268		Air pump and heating apparatus for carriages - elevation and plan	23 Apr 1898		4' 3" six wheel coupled coal side tank engine		FALSE
18	C	13172		General arrangement and details of brake gear	8 Nov 1904		5' 0" six wheel coupled side tank engine		FALSE
18	C	13153		Details of pistons, cylinder and steam chest cover	11 Mar 1898		7' 0" four wheel coupled compound passenger engine		FALSE
18	C	13108		Detail of low pressure cylinders (20 1/2" diameter x 24" stroke)	8 Feb 1898		7' 0" four wheel coupled compound passenger engine	Also used for six other classes of engine	FALSE
18	C	13045		Standard crosshead for 3" piston rods	23 Mar 1921		5 classes		FALSE
18	C	13039		Details of crosshead for air pump piston rod and details of air pump	3 Jan 1898	6 Jul 1934	5' 0" six wheel coupled side tank engine		FALSE
18	C	13031		Details of valve liners and steam chest covers	3 Jan 1898		7' 0" four wheel coupled compound passenger engine		FALSE
2	C	767		Valve box on the side of the low pressure cylinder	13 Mar 1889		7' 0" compound passenger engine		FALSE
2	C	772		Cast iron steam pipe and valves for 20" low pressure cylinder	18 Mar 1889		7' 0" compound passenger engine		FALSE
19	C	14976		Detail of spring	9 Sep 1918	19 Nov 1943	Standard 2500 gallon tender		FALSE
19	C	14973		Details of hornblocks, tie rods, footsteps and brake shaft bracket	25 Feb 1902		Standard 2500 gallon tender		FALSE
19	C	14960		Detail of tank	20 Feb 1902	15 Jun 1936	Standard 2500 gallon tender		FALSE
19	C	14955		Details of castings for brake gear	7 Nov 1901	29 Jan 1926	4' 3" four cylinder compound coal engine		FALSE
19	C	14954		Detail of steam brake gear	29 Sep 1920		4' 3" four cylinder compound coal engine		FALSE
19	C	14951		Detail of low pressure motion plate	2 Oct 1901	13 Oct 1904	4' 3" four cylinder compound coal engine		FALSE
19	C	14943		Standard 20 ton coal wagon	14 Sep 1901		Standard 20 ton coal wagon	2 drawings of different parts of the same wagon with the same number	FALSE
19	C	14943		Standard 20 ton coal wagon	17 Aug 1901		Standard 20 ton coal wagon	2 drawings of different parts of the same wagon with the same number	FALSE
19	C	14935		Diagram of smokebox door clips	none		28 classes of locomotive		FALSE
19	C	14918		Iron door and frame leading from corridor to flat roof	5 Sep 1901		Mechanics' Institute, Carlisle		FALSE
19	C	14779		Details of castings for hopper	28 May 1903		4' 3" four cylinder compound coal engine		FALSE
19	C	14777		Details of spark arrester	4 Nov 1924		4' 3" four cylinder compound coal engine	Part copy	FALSE
19	C	14769		Arrangement and detail of reversing gear	11 October 1920		4' 3" four cylinder compound coal engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
19	C	14659		Details of high pressure cylinder covers and piston	20 Sep 1920		4' 3" four cylinder compound coal engine		FALSE
19	C	14605		Details of wheels, axles, crank pins, etc.	20 Sep 1920		4' 3" four cylinder compound coal engine		FALSE
19	C	14574		Detail of high pressure cylinders (16" diameter x 24" stroke)	4 Dec 1900		7' 0" four wheel coupled compound passenger engine		FALSE
19	C	14565		Arrangement of 9mm restarting injectors	28 Nov 1900		5' 9" Metropolitan engine (rebuilt)		FALSE
19	C	14544		Details of smokebox	13 Nov 1900		18" goods engine fitted with piston valves		FALSE
19	C	14542		Steam brake cylinder detail of packing	12 Nov 1900		Standard fitting		FALSE
19	C	14510		Detail of 7" piston valves with eccentric expansion rings	4 Oct 1900		7' 0" four wheel coupled compound passenger engine		FALSE
19	C	14505		Details of 6 1/2" piston valves with eccentric expansion rings	4 Oct 1900		5' 0" six wheel coupled side tank engine		FALSE
19	C	14298		Cylinder cock gear for engines with rectangular slide valve	26 May 1900	3 May 1910	5' 0" six wheel coupled side tank engine		FALSE
19	C	14296		Details of stay plate and brake cylinder	12 May 1900		5' 6" side tank passenger engine	Also 5' 0" 6-wheel coupled and 6' 0" 4-wheel coupled side tank engines	FALSE
19	C	14054		Details of high pressure steam chest covers and liners	20 Sep 1920		4' 3" four cylinder compound coal engine		FALSE
20	C	15485		Diagram of protection plates for drivers	23 Dec 1902		Standard fitting		FALSE
20	C	15480		Diagram of pillars, hooks and link for spring gear	17 Jun 1902		Standard fitting		FALSE
20	C	15464		Details of core drying store (south bay)	27 Sep 1906		Extension of steel foundry		FALSE
20	C	15410		Detail of axleboxes (oil)	7 Oct 1902		20 ton coal wagon		FALSE
20	C	15403		Arrangement and details of damper under firebox	22 Sep 1902		7' 0" four wheel coupled compound passenger engine with large boiler		FALSE
20	C	15263		Steam pipe flanges	30 Apr 1913		Standard fitting		FALSE
20	C	15258		Diagram sheet of blastpipes	21 Aug 1911		Standard fitting		FALSE
20	C	15256		Boiler fitted with longitudinal roofing bars	22 Jul 1902	22 Jul 1905	7' 0" four wheel coupled compound passenger engines - Alfred The Great and Renown classes		FALSE
20	C	15213		Blast pipes for goods engines - sheet no. 1	16 Jun 1902		Standard fitting		FALSE
20	C	15212		Blast pipes for passenger engines - sheet no. 2	11 Dec 1920		4 classes		FALSE
20	C	15211		Blast pipes for goods engines - sheet no. 2	12 Jun 1920		7 classes		FALSE
20	C	15210		Blast pipes for passenger engines - sheet no. 1	16 Jun 1902		9 classes		FALSE
20	C	15195		Details of roofing bars, brackets, slings and pins	20 Sep 1920		4' 3" four cylinder compound coal engine		FALSE
20	C	15190		Arrangement and details of longitudinal roofing bars and links	7 Jun 1902	12 Jan 1910	4' 3" four cylinder compound coal engine	Also used for 7' 0" four wheel coupled compound passenger engine	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
20	C	15182		Detail of castings for staying top of firebox with longitudinal bars	2 Jul 1902		4' 3" four cylinder compound coal engine		FALSE
20	C	15175		Diagram showing position of lamp brackets on engines	16 Jun 1902		Standard fitting		FALSE
20	C	15156		Standard axlebox lid for tenders	3 May 1920	8 Oct 1942	Standard fitting		FALSE
20	C	15142		Detail of frame	26 Feb 1902	16 Jun 1936	Standard 2500 gallon tender		FALSE
20	C	15131		General arrangement of hopper	24 Mar 1902		4'3" four cylinder compound coal engine		FALSE
20	C	15110		Details of knee plates, angles etc.	25 Feb 1902		4'3" four cylinder compound coal engine		FALSE
20	C	15103		Detail of axlebox	21 Nov 1904	17 Jun 1935	Standard 2500 gallon tender		FALSE
20	C	15099		Motion plate	10 Feb 1902		4'6" six and eight wheel side tank engines		FALSE
20	C	15065		Arrangement of drains for new shops	27 Jan 1902		Mechanics' Institute, Crewe		FALSE
20	C	15062		Details of smoke-box with internal chimney	7 Jan 1891		6' 6" straight link passenger engine		FALSE
20	C	15061		Feedwater gear, whistle, blower, etc.	none		4'3" special tank engine	Also for the 5' 0" Greenore engine	FALSE
20	C	15053		Details of firebars, brackets and carriers	4 Feb 1902	16 Sep 1903	4'3" four cylinder compound coal engine		FALSE
20	C	15020		Detail of boiler barrel ring and central stay between frames (steel castings)	14 Dec 1901		4'3" four cylinder compound coal engine		FALSE
20	C	15019		Details of castings	14 Dec 1901	1 Oct 1942	4'3" four cylinder compound coal engine		FALSE
20	C	15004		Diagram sheet of steel bushes	6 Jan 1932		Standard fitting for engines and tenders		FALSE
2	C	694		Balanced Valve and Buckle 20" cylinder	7 Jan 1889		7'0" Compound Passenger Engine		FALSE
2	C	755		Steam Valve for 20" Low Pressure cylinder	9 Mar 1889		7'0" Compound Passenger Engine		FALSE
21	C	15695		Driving & trailing wheels	19 Dec 1960		6'6" four wheeled coupled passenger engine with Joy's valve gear	Traced from original dated 10 Sep 1903	FALSE
21	C	15694		Details of axles & crank pins	4 Aug 1905	21 Mar 1907	6'6" four wheel coupled passenger engine with Joys valve gear		FALSE
21	C	15693		Details of cylinder drain valves	4 Sep 1903		4'3" four cylinder compound coal engine	These drain valves cancelled after 19 Aug 1914	FALSE
21	C	15692		Arrangement of roofing bars for firebox	16 Aug 1907	13 Jan 1910	6'6" four wheel coupled passenger engine: "Precursor" class		FALSE
21	C	15681		General arrangement of Duplex Reversing Gear & high pressure valve motion (Joys)	20 Nov 1903		7'0" four wheel coupled compound engine	Part copy	FALSE
21	C	15681		General arrangement of Duplex Reversing Gear & high pressure valve motion (Joys)	17 Aug 1903		7'0" four wheel coupled compound engine		FALSE
21	C	15658		Details of locomotive chimney	28 April 1915		12 classes of locomotive		FALSE
21	C	15656		Locomotive cylinders; steam chest covers	31 Jul 1903			Method for plugging holes in cover when snifting valves are removed	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
21	C	15640		Details of valve spindles & crossheads	22 Jul 1903		7'0" four wheel coupled compound engine fitted with high pressure Joy's gear		FALSE
21	C	15637		Details of cab & panel plates	23 Jul 1903		7' four wheel coupled compound engine with large boiler & high pressure Joy's valve motion		FALSE
21	C	15636		Detail of guide bracket for high pressure valve spindles	23 Jul 1903		7' four wheel coupled compound engine		FALSE
21	C	15633		Detail of castings for Joy's high pressure motion	18 Jul 1903		7' four wheel coupled compound engine		FALSE
21	C	15632		Arrangement & details of glass water gauges for engines & tenders	14 Jul 1903		5 classes of locomotives & 3 types of tender		FALSE
21	C	15626		Details of discs & guides for high pressure motion: Joy's gear	13 Jul 1903		7' four wheel coupled compound passenger engine		FALSE
21	C	15625		Details of reversing shaft & disc rod for Joy's high pressure motion	13 Jul 1903		7' four wheel coupled compound passenger engine		FALSE
21	C	15624		High pressure connecting rod for Joy's high pressure valve gear	11 Jul 1903		7' four wheel coupled compound passenger engine: "Alfred the Great" class		FALSE
21	C	15623		Detail of high pressure crosshead for engines with high pressure Joy's gear	13 Jul 1903		7' four wheel coupled compound passenger engine		FALSE
21	C	15622		Details of high pressure Joy's motion	10 Jul 1903		7' four wheel coupled compound passenger engine		FALSE
21	C	15606		Details of steam brake gear	25 May 1903		5'6" side tank passenger engine		FALSE
21	C	15546		Diagram of connecting rods for locomotives	20 Mar 1903		General		FALSE
21	C	15539		Details of roofing bars, stay bolts etc: for Belpaire boiler with copper tube plate	25 Jan 1903	28 Oct 1903			FALSE
21	C	15533		Details of valve motion	2 Jan 1920		7' four wheel coupled compound passenger engine & 4'3" four cyl. compound coal engine		FALSE
21	C	15503		Standard T pipe for 4" steam pipes	9 Mar 1931		Five classes of locomotive		FALSE
22	C	15747		Standard 3000 gallon tender: detail of tank	17 Oct 1903	16 Jun 1936			FALSE
22	C	15746		3000 gallon tender : details of frame covering plates, beading angles etc:	17 Oct 1903			Only correct for tenders with coal well tanks. For tenders with sloping bunker tanks see Trs. 18166	FALSE
22	C	15739		Details of misc. castings	9 Oct 1903		6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
22	C	15738		Details of piston rod & slide bars	9 Oct 1903	26 Feb 1941	6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
22	C	15737		Details of valve motion	5 Jan 1915		6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
22	C	15729		Alterations to firebars brackets & carriers for boilers having long fireboxes	14 Oct 1903				FALSE
22	C	15723		Details of driving hornblocks	6 Oct 1903		6'6" four wheel coupled passenger engine with Joy's valve gear		FALSE
22	C	15717		Footplate casting for engines fitted with the vacuum brake	21 May 1912		6'6" "George the Fifth" class	Part copy	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
22	C	15717		Details of footplate, corner bracket & footstep	28 Sep 1903		6'6" four wheel coupled passenger engine with Joy's motionI		FALSE
22	C	15716		Details of cylinders 19" dia. X 26" stroke	26 Sep 1903		6'6" four wheel coupled passenger engine with Joy's motionI		FALSE
22	C	15709		Details of steel castings	17 Sep 1903		6'6" four wheel coupled passenger engine with Joy's motionI		FALSE
22	C	15707		Details of steam chest cover: front end	21 Nov 1924	3 Dec 1924	"Precursor", "Experiment", 6'0" four coupled side tank & 5'0" six coupled goods		FALSE
22	C	15706		Diagram of wheel bases & weights for goods engines	31 Jan 1912			Sheet No. 2	FALSE
22	C	15706		Diagram of wheel bases & weights for goods engines	22 Jun 1906	28 Feb 1909		Sheet No. 1	FALSE
22	C	15704		Diagrams showing wheelbases & weights on wheels etc:	1 Mar 1909		4'3" compound & non-compound goods engines		FALSE
22	C	15703		Details of roofing bars & brackets for firebox	6 Nov 1922		6'6" four wheel coupled passenger engine. "George the Fifth" class		FALSE
22	C	15702		Detail of piston & cylinder covers	12 Sept 1903	8 Oct 1940	6'6" four wheel coupled passenger engine with Joy's motion		FALSE
22	C	15701		Trailing hornblock	12 Sep 1903		6'6" four wheel coupled passenger engine with Joy's motion		FALSE
23	C	15756		Details of regulator, standpipe & tee pipe	25 Nov 1911		"Precursor" locomotives & 14 other classes		FALSE
23	C	15772		Pump for automatic vacuum brake	31 Oct 1903	1 Nov 1937	6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
23	C	15765		Details of quadrant, shaft, eccentric sheave & strap for regulating valve	6 Dec 1915	27 Jun 1946	6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
23	C	15797		Arrangement & details of reversing gear	28 Jun 1907		"Precursor" class		FALSE
23	C	15796		Details of scoop and hangers for pick-up apparatus on standard 3000 gallon tender	12 Nov 1903				FALSE
23	C	15790		General arrangement of smokebox	26 Jan 1904		6'6" four wheel coupled passenger engine with Joy's valve gear		FALSE
23	C	15782		Arrangement & details of cylinder cock gear	12 Jan 1904		6'6" four wheel coupled passenger engine with Joy's valve gear. "Precursor" class		FALSE
23	C	15781		Detail of driving splasher	21 Dec 1903		6'6" four wheel coupled passenger engine with Joy's valve gear. "Precursor" class		FALSE
23	C	15780		3000 gallon tender: details of castings for steam and hand brake gear	7 Nov 1903				FALSE
23	C	15779		3000 gallon tender: details of forgings for brake gear	5 Nov 1903				FALSE
23	C	15773		Detail of cab window frames	5 Nov 1903		7'0" four wheel coupled compound engine (with large boiler) fitted with H.P. Joy's valve motion		FALSE
23	C	15771		Arrangement of carriage heating apparatus on engine No. 1881	6 Nov 1903				FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
23	C	15763		Detail of slide valve & buckle	14 Nov 1923		Eleven classes of locomotive		FALSE
23	C	15760		3000 gallon tender: details of footstep	28 Oct 1903				FALSE
23	C	15759		Details of frame plates	6 Mar 1907		"Precursor" class		FALSE
23	C	15758		3000 gallon tender: details of central buffer & couplings	7 Feb 1921		Eleven classes of locomotives		FALSE
23	C	15757		3000 gallon tender: details of hornblocks	28 Apr 1920				FALSE
23	C	15757		3000 gallon tender: details of hornblocks	22 Oct 1903				FALSE
23	C	15755		Details of reversing shaft, brackets & lever	22 Oct 1903		6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
23	C	15754		Details of connecting rods	17 Oct 1914		"Precursor" class		FALSE
24	C	15801		General arrangement of radial truck	22 Jan 1904		6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
24	C	15800		General arrangement of reversing gear	15 Feb 1904		6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
24	C	15893		Standard 3000 gallon tender: details of life guards, handrails, valve rods & feed pipe stays	28 May 1920	4 Dec 1946			FALSE
24	C	15892		Standard 3000 gallon tender: details of forgings etc: for pick-up apparatus	12 Jan 1904				FALSE
24	C	15891		Standard 3000 gallon tender: details of bracket, screw & locking gear for pick-up apparatus	12 Jan 1904				FALSE
24	C	15888		Standard 3000 gallon tender: detail of trailing draw-bar	11 Jan 1904				FALSE
24	C	15858		3000 gallon tender: detail of spring (for curved type plates)					FALSE
24	C	15855		Standard 3000 gallon tender: details of axlebox	5 Dec 1903	28 Oct 1912			FALSE
24	C	15854		Standard 3000 gallon tender: details of pick-up apparatus	24 Nov 1903	11 Apr 1921			FALSE
24	C	15832		Details of forgings for injector gear	20 Jan 1904	26 Jan 1914	6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
24	C	15826		Detail of cast iron blocks for footplate	19 Dec 1903		6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
24	C	15825		Carriage heating apparatus	23 Jan 1904		6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
24	C	15823		Details of cab window frames	19 Dec 1903		6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
24	C	15822		Standard buffers for engines & tenders	28 Sep 1917	1 Feb 1943			FALSE
24	C	15819		Details of fittings for smokebox front	4 Dec 1903	3 Apr 1911	6'6" four wheel coupled passenger engine with Joy's valve gear		FALSE
24	C	15818		3000 gallon tender: details of frame	16 Jan 1908	17 Nov 1938			FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
24	C	15814		General arrangement of ashpan & firebars	5 Dec 1903	16 Jul 1934	6'6" four wheeled coupled passenger engine with Joy's valve motion		FALSE
24	C	15814		Ashpan altered for engines fitted with automatic vacuum sack	23 Jul 1912		6'6" four wheeled coupled passenger engine with Joy's valve motion	Rider to previous drawing	FALSE
24	C	15813		Details of boiler mountings	16 Mar 1909	7 Feb 1912	6'6" four wheeled coupled passenger engine with Joy's valve motion		FALSE
24	C	15810		General arrangement & details of shut off gear fitted to standard LNWR locomotive water gauge	4 Jun 1920				FALSE
24	C	15810		Standard locomotive water gauge	27 Nov 1903				FALSE
24	C	15806		Arrangement & details of sand gear	4 Jan 1904		6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
24	C	15804		Details of handrails & vacuum pipes	19 Dec 1903		6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
24	C	15803		General arrangement of auto vacuum brake. End views & cross sections	30 Jan 1904		6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
24	C	15802		General arrangement of pipes for vacuum brake	21 Dec 1903		6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
25	C	15994		Details of cab panel plates and bunker	30 Apr 1904	10 Oct 1927	4'3" six wheel coupled saddle tank coal engine		FALSE
25	C	15989		Special girder and rail for craneway	22 Apr 1904	2 Nov 1906	15-ton electric travelling crane		FALSE
25	C	15983		General arrangement of trailing hornblocks	16 Apr 1904		6'6" four wheel coupled passenger engine with Joy's valve motion		FALSE
25	C	15982		Details of trailing hornblock	12 Nov 1908		6'6" four wheel coupled passenger engine with Joy's valve motion	Precursor class	FALSE
25	C	15980		Detail of wheel 3' diameter with 3" tyres	4 May 1904		4'3" 4-cylinder eight wheels coupled compound coal engine with leading radial axlebox		FALSE
25	C	15989		General arrangement of leading end	7 May 1904		4'3" 4-cylinder eight wheels coupled compound coal engine with leading radial axlebox		FALSE
25	C	15970		Details of blower and steam jet valve	7 Oct 1931		6'6" four wheel coupled passenger engine with Joy's valve motion	Precursor class. Valve is used also for Classes Prince of Wales and George V	FALSE
25	C	15945		Detail of ram head and sling bolts	7 Apr 1904		Steam shed engine lift with 5 1/2" diameter ram		FALSE
25	C	15962		Details of arrangement of indicator plate for water pickup apparatus	12 May 1920		3000-gallon tender		FALSE
25	C	15960		Arrangement of tool boxes and coal rack	26 Mar 1904		4'6" side tank engine (8 wheels - 2-4-2T)		FALSE
25	C	15948		Details of forgings for press and working valve	23 Mar 1904		Standard 18" x 24" hydraulic copying press		FALSE
25	C	15940		6" hatch box	12 Mar 1904		not specified		FALSE
25	C	15925		Arrangement of pipes for carriage heating apparatus and auto vacuum brake	4 Mar 1904		Standard 3000-gallon tender fitted with steam brake and coal well		FALSE
25	C	15922		Arrangement of tool boxes and coal rack	1 Mar 1904		4'3" side tank coal engine		FALSE
25	C	15913		Detail of name plate	19 Feb 1904		6'6" four wheel coupled passenger engine with Joy's valve motion	21 Nov 1960 tracing from original drawing. Precursor	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
25	C	15913		Detail of name plate	19 Feb 1904		6'6" four wheel coupled passenger engine with Joy's valve motion	Precursor. Original drawing.	FALSE
25	C	15908		Arrangement of tool boxes and coal rack	9 Feb 1904		5'0" six wheel coupled side tank engine (18" cylinders)	Also used for 5'6" passenger side tank engine	FALSE
25	C	15988		Details of castings for radial truck	16 Apr 1904		6'6" four wheel coupled passenger engine with Joy's valve motion	Castings are the same as for 7'0" 4-wheel coupled compound engine	FALSE
25	C	15984		Details of cylinders (19 1/2" diameter x 24" stroke)	16 Apr 1904		4'3" eight wheels coupled compound engine		FALSE
26	C	16163		Details of metallic packing	8 Sep 1904		Locomotive engines		FALSE
26	C	16162		Details of metallic packing	8 Sep 1904		Locomotive engines		FALSE
26	C	16161		Diagram of metallic packing for piston rod and valve spindles	3 Apr 1919		Many locomotives		FALSE
26	C	16149		Details of smokebox	15 Sep 1904		4'3" eight wheels coupled coal engine (cylinders 19 1/2" diameter)		FALSE
26	C	16146		Standard smokebox door for opening 3'10" diameter	15 Sep 1904	16 May 1947	Standard		FALSE
26	C	16140		Details and general arrangement of hopper and spark arrester	7 Sep 1904	16 Nov 1904	4'3" eight wheels coupled coal engine (cylinders 19 1/2" diameter)		FALSE
26	C	16127		Arrangement and details of cylinder cock gear	1 Jul 1909		4'3" eight wheels coupled coal engine with 4'4" diameter boilers; classes C & C1	Also used for engines with 5'2" diameter boiler; class D	FALSE
26	C	16125		Details of life guards	23 Apr 1915		6'0" six coupled passenger engine, Prince of Wales class	Also 4'3" eight coupled coal engine, class G1. Part copy	FALSE
26	C	16125		Standard life guards	26 Oct 1894		Many classes		FALSE
26	C	16123		Arrangement and details of reversing gear	15 Sep 1905		4'3" eight wheels coupled coal engine (cylinders 19 1/2" diameter and 5'2" diameter boilers)		FALSE
26	C	16121		Details of leading and trailing hornblocks	15 Aug 1904	19 Dec 1946	4'3" eight wheels coupled coal engine (cylinders 19 1/2" diameter)		FALSE
26	C	16120		Details of steel castings	13 Aug 1904		4'3" eight wheels coupled coal engine (cylinders 19 1/2" diameter)	Details correct for same engine fitted with 5'2" diameter boiler	FALSE
26	C	16115		Steam chest covers	8 Aug 1904	29 Jul 1905	4'3" eight wheels coupled coal engine (cylinders 19 1/2" diameter)		FALSE
26	C	16114		Diagram of asbestos joints for locomotives	17 Mar 1955		Many classes	Retraced from drawing dated 1916	FALSE
26	C	16102		Details of spring bracket and hook	11 Apr 1906		3000-gallon tender		FALSE
26	C	16075		Detail of crank pins	25 Jul 1904		4'3" eight wheels coupled coal engine	3-cylinder compound converted to simple engine	FALSE
26	C	16096		Locomotive tube plates - diagram showing arrangement of tubes	18 Sep 1905		Many classes		FALSE
26	C	16091		Diagrams of motion plates for goods engines	5 May 1894		Many classes of compound and non-compound goods engines		FALSE
26	C	16088		Diagram sheet of shield plates for passenger and goods engines	13 Jul 1892		Many classes		FALSE
26	C	16087		Diagram showing clearance between axlebox and hornblock	26 Aug 1898		Many classes		FALSE
26	C	16086		Details of wheels	19 Jul 1904		4'3" eight wheels coupled coal engine (cylinders 19 1/2" and 18 1/2")		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
26	C	16085		Details of frame plates and outside covering plates	19 Jul 1904		4'3" eight wheels coupled coal engine (cylinders 19 1/2" and 18 1/2"); classes C and C1	Fitted with a boiler of 4'4" diameter	FALSE
26	C	16050		Diagram of couplings for engines and tenders	5 May 1910		Standard fittings		FALSE
26	C	16046		Details of elbow castings etc. for automatic vacuum brake	10 Feb 1911		Standard fitting		FALSE
26	C	16041		Details of cab window frame	13 Jun 1904	16 Sep 1937	4'3" six wheel coupled saddle tank coal engine		FALSE
26	C	16033		Arrangement and details of sand gear	4 Aug 1904		4'3" six wheel coupled saddle tank coal engine		FALSE
26	C	16030		General arrangement and detail of brake gear	29 Jun 1918		4'3" six wheel coupled saddle tank coal engine		FALSE
26	C	16024		Gusset brackets and footplate spring trough	16 May 1904		4'3" six wheel coupled saddle tank coal engine		FALSE
26	C	16016		Wood seat for enginemen	4 Jun 1920		5 classes of engine		FALSE
26	C	16163		Detail metallic packing for valve spindles	13 Aug 1920		4'3" four cylinder compound coal engine		FALSE
27	C	16299		Details of cab and panel plates	2 Aug 1911	16 Jul 1918	6'0" six wheel coupled passenger engine	Applies to all engines of Experiment and Prince of Wales classes built at Crewe	FALSE
27	C	16298		Details of big end for connecting rod	21 Jan 1905	28 May 1943	4'3" four cylinder compound coal engine		FALSE
27	C	16293		Tie casting for trailing wheels	18 Sep 1908		6'0" six coupled passenger engine, Experiment class	Part copy	FALSE
27	C	16293		Details of pads for intermediate and trailing springs	17 Jan 1905		6'0" six coupled passenger engine		FALSE
27	C	16292		Details of frame plates	20 Jul 1909		6'0" six coupled passenger engine		FALSE
27	C	16290		Details of reversing shaft, brackets and lever	12 Jan 1905	11 May 1909	6'0" six wheel coupled passenger engine	Also used for other classes, eg. 5'0" 6-wheel coupled goods engine	FALSE
27	C	16289		Details of piston and cylinder covers	17 Jan 1905	25 Jun 1934	6'0" six wheel coupled passenger engine		FALSE
27	C	16286		Details of covering plates	20 Jul 1909		6'0" six wheel coupled passenger engine		FALSE
27	C	16285		Details of roofing bars and stays for firebox	16 Apr 1915		6'0" six coupled passenger engine		FALSE
27	C	16267		Detail of intermediate hornblock	23 Dec 1904		6'0" six wheels coupled passenger engine	Experiment and Prince of Wales classes	FALSE
27	C	16266		Details of miscellaneous castings	20 Dec 1904		6'0" six wheels coupled passenger engine		FALSE
27	C	16264		Detail of trailing spring	8 Dec 1908		4'3" eight coupled coal engine fitted with leading radial axlebox		FALSE
27	C	16263		Details of metallic packing for regulator stuffing box	10 Oct 1905		Standard fitting		FALSE
27	C	16262		Details of big end of connecting rod	9 Feb 1914		4'3" eight wheel coupled coal engine		FALSE
27	C	16243		Motion plate, cross stay and footplate carrying bracket	7 Dec 1904		6'0" six wheel coupled passenger engine		FALSE
27	C	16242		Intermediate and trailing wheels	17 Oct 1914		6'0" six coupled passenger engine - Experiment class	Also used for Prince of Wales class	FALSE
27	C	16241		Details of driving wheels and general arrangements of balance weights	17 Oct 1914		6'0" six coupled passenger engine - Experiment class	Also used for Prince of Wales class - with crescent balances	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
27	C	16241		Details of driving wheels and general arrangements of balance weights	12 Dec 1904		6'0" six wheel coupled passenger engine	With riveted balance weights	FALSE
27	C	16240		Details of connecting rod	13 Dec 1904		6'0" six wheel coupled passenger engine		FALSE
27	C	16232		Details of axles and crank pins	22 Mar 1920		6'0" six coupled Prince of Wales class		FALSE
27	C	16207		Detail of central bearing	2 Dec 1904		6'0" six wheel coupled passenger engine - Experiment and Prince of Wales classes		FALSE
27	C	16206		Details of footplate corner brackets and footstep	19 Nov 1904	Jul 1912	6'0" six wheel coupled passenger engine	Used for Experiment, Precursor and 5'0" six wheel coupled goods engine	FALSE
28	C	16346		Arrangement of steam heating apparatus	18 Mar 1905		6'0" six wheel coupled passenger engine		FALSE
28	C	16345		Arrangement of lubricators and pipes	21 Jul 1905		6'0" six wheel coupled passenger engine		FALSE
28	C	16344		Details of cast iron and wood blocks for footplate	18 Mar 1905		6'0" six wheel coupled passenger engine	Required for Prince of Wales, Experiment and 5'0" six wheel coupled goods	FALSE
28	C	16342		General arrangement of smokebox	18 Feb 1905		6'0" six wheel coupled passenger engine		FALSE
28	C	16341		General arrangement and details of damper gear	4 May 1915		6'0" six wheel coupled passenger engine		FALSE
28	C	16340		Details of lagging for boiler	? May 1915		6'0" six wheel coupled passenger engine - Experiment and Prince of Wales classes		FALSE
28	C	16340	PC	Alteration to firebox lagging plates	1 Sep 1920		6'0" six coupled Prince of Wales class	Part copy	FALSE
28	C	16339		Details of forgings for injectors and feed pipes	22 Feb 1905		6'0" six wheel coupled passenger engine		FALSE
28	C	16337		General arrangement of ashpan and firebars	27 Apr 1920	16 Jul 1934	6'0" six wheel coupled passenger engine		FALSE
28	C	16337		General arrangement of ashpan and firebars	7 Feb 1905	15 Nov 1918	6'0" six wheel coupled passenger engine		FALSE
28	C	16336		Arrangement of roofing bars for firebox	16 Aug 1907	12 Jan 1910	6'0" six coupled passenger engine - Experiment class		FALSE
28	C	16329		Details of handrails and vacuum pipes	22 Feb 1905	23 Jan 1920	6'0" six wheel coupled passenger engine		FALSE
28	C	16328		General arrangement of auto vacuum brake - end views and cross sections	11 Mar 1905	Jul 1912	6'0" six wheel coupled passenger engine		FALSE
28	C	16327		General arrangement of auto vacuum brake - elevations and plan	11 Mar 1905		6'0" six wheel coupled passenger engine		FALSE
28	C	16326		Details of steam brake gear	18 Feb 1905	Jul 1912	6'0" six wheel coupled passenger engine		FALSE
28	C	16324		General arrangement of steam brake gear	18 Feb 1905	Jul 1912	6'0" six wheel coupled passenger engine		FALSE
28	C	16318		Arrangement and details of cylinder cock gear	7 Mar 1905		6'0" six wheel coupled passenger engine		FALSE
28	C	16315		Diagram showing principle dimensions of standard cabs	7 Feb 1905		Standard - different cabs from 16314		FALSE
28	C	16314		Diagram showing principle dimensions of standard cabs	none		Standard - different cabs from 16315		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
28	C	16312		Details of splashers	16 Apr 1915		6'0" six wheel coupled passenger engine Prince of Wales class		FALSE
28	C	16301		Arrangement and details of reversing gear	5 Jun 1925	15 Oct 1935	6'0" six wheel coupled passenger engine	Also used for Prince of Wales class	FALSE
29	C	16397		Detail of coupling rods	17 Oct 1904	16 Apr 1917	Steam motor carriage - cylinders 9 1/2" x 15"		FALSE
29	C	16396		Detail of motion plate	17 Oct 1904		Steam motor carriage		FALSE
29	C	16377		Details of castings and forgings	1 Dec 1904		Steam motor carriage - cylinders 9 1/2" x 15"		FALSE
29	C	16376		Smokebox plates and door	19 Nov 1904		Steam motor carriage - cylinders 9 1/2" x 15"		FALSE
29	C	16375		General arrangement and details of smokebox	1 Dec 1904		Steam motor carriage - cylinders 9 1/2" x 15"		FALSE
29	C	16374		Details of eccentrics and eccentric rods	17 Oct 1904		Steam motor carriage		FALSE
29	C	16373		Details of valve motion	17 Oct 1904		Steam motor carriage		FALSE
29	C	16369		Details of piston rod, slide bars and crosshead	17 Oct 1904		Steam motor carriage		FALSE
29	C	16368		Details of hornblock, axlebox and tiebars	17 Oct 1904		Steam motor carriage		FALSE
29	C	16365		Details of wheels, axles and crankpins	17 Oct 1904		Steam motor carriage		FALSE
29	C	16364		Detail of connecting rod	17 Oct 1904		Steam motor carriage		FALSE
29	C	16363		Details of piston head, cylinder covers and steam chest cover	17 Oct 1904		Steam motor carriage		FALSE
29	C	16354		Detail of name plate	13 Jul 1915		6'0" six coupled Prince of Wales class		FALSE
30	C	16498		Arrangement and details of regulator gear	13 Jun 1905		Steam motor carriage		FALSE
30	C	16495		Details of hornblocks for intermediate wheels, corner brackets, boiler carrying bracket and frame stay, and bracket for reversing gear	6 Jun 1905		4'3" eight whel coupled coal engine (19 1/2 cylinders)		FALSE
30	C	16494		General arrangement of engine brake gear	6 Jun 1905		Steam motor carriage - cylinders 9 1/2" x 15"		FALSE
30	C	16491		Details of stays for firebox tubeplate	27 Jul 1922		7' 4-whl. coupled compound passr., 6'6" 4- whl. coupled passr. and 6' 6-wh. coupled passr. Engines	Five other 6'0", 5'0" and 4'3" engines	FALSE
30	C	16488		Arrangement and details of cylinder cock gear	2 Jun 1905		Steam motor carriage		FALSE
30	C	16486		Bracket for boiler mountings	31 May 1905		Steam motor carriage		FALSE
30	C	16485		Details of lagging for boiler	31 May 1905		Steam motor carriage		FALSE
30	C	16473		Detail of tank water gauge and water connections	4 Oct 1905		Steam motor carriage		FALSE
30	C	16463		Details of regulator valve and injector steam valves	18 May 1905		Steam motor carriage		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
30	C	16461		General arrangement and details of cylinder steam pipes	18 May 1905		Steam motor carriage		FALSE
30	C	16460		Details of brake gear	18 May 1905		Steam motor carriage		FALSE
30	C	16458		General arrangement and details of ashpan, firebars and damper gear	17 May 1905		Steam motor carriage		FALSE
30	C	16457		General arrangement and details of safety valve	17 May 1905		Steam motor carriage		FALSE
30	C	16455		Arrangement and details of firehole door	7 Jun 1905		Steam motor carriage		FALSE
30	C	16449		Steam brake - diagram of tee levers and pendulum rods	31 Mar 1905	Jun 1912	Standard fitting		FALSE
30	C	16443		Details of water tank on coach	3 May 1905		Steam motor carriage		FALSE
30	C	16434		Diagram of chimneys	7 Sep 1906		16 examples of chimney		FALSE
30	C	16428		Castings for reversing and brake screw	8 Apr 1905		Steam motor carriage		FALSE
30	C	16427		Details of forgings for reversing and brake screws	8 Apr 1905		Steam motor carriage		FALSE
30	C	16426		Detail of spring buckle	7 Apr 1905		Steam motor carriage		FALSE
30	C	16425		Detail of engine bearing springs	7 Apr 1905		Steam motor carriage		FALSE
30	C	16422		Details of spring gear	4 Apr 1905		Steam motor carriage	Also for rail motor coach	FALSE
30	C	16421		Details of reversing shaft, rod and lever	31 Mar 1905		Steam motor carriage		FALSE
30	C	16420		Castings for water tanks	4 Apr 1905		Steam motor carriage		FALSE
30	C	16416		Boiler supporting pads and reversing shaft brackets	6 Apr 1905		Steam motor carriage		FALSE
30	C	16415		Details of frames and covering plates	20 Mar 1905		Steam motor carriage		FALSE
30	C	16414		General arrangement and details of exhaust pipes	23 Mar 1905		Steam motor carriage		FALSE
30	C	16408		Roofing bars, slings and stays for boilers	17 Oct 1904		Steam motor carriage		FALSE
30	C	16405		Details of water tanks	20 Mar 1905		Steam motor carriage		FALSE
30	C	16402		Details of engine bogie centre	20 Mar 1905		Steam motor carriage		FALSE
31	C	16565		General arrangement of smokebox	14 Aug 1905		4'3" eight wheel coupled coal engine	Fitted with 19 1/2" cylinders and 5'2" diameter large boilers	FALSE
31	C	16563		Detail of ashpan	8 Oct 1915	16 Jul 1934	4'3" eight wheel coupled coal engine (superheated Class G1)	Also used on engines fitted with 5'2" diameter boilers	FALSE
31	C	16557		Arrangement of firebox with foundation ring and ashpan	22 Jul 1905		7'0" four wheel coupled compound passenger engine, Alfred the Great Class		FALSE
31	C	16549		General arrangement and details of steam heating apparatus	5 Aug 1905		Steam motor carriage	Also used for rail motor coaches with 11" x 16" cylinders	FALSE
31	C	16547		General arrangement of lubricators and pipes	22 Jul 1905		Steam motor carriage	Also used for rail motor coaches with 11" x 16" cylinders	FALSE
31	C	16546		General arrangement of reversing gear	21 Jul 1905		Steam motor carriage	Also used for rail motor coaches with 11" x 16" cylinders	FALSE
31	C	16540		Arrangement and details of sand gear	17 Jul 1905		Steam motor carriage		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
31	C	16537		Detail of weathering plates on chimney and dome	17 Jul 1905		Steam motor carriage	Also used for rail motor coaches with 11" x 16" cylinders	FALSE
31	C	16533		Standard connecting rod and goods and passenger engines	21 Jan 1918		Standard fitting		FALSE
31	C	16529		Details of small end for connecting rod	28 Jan 1905		4'3" eight wheel coupled coal engine (superheated G1 Class)	Also used for eight other engines	FALSE
31	C	16525		Detail of connecting rod	19 Jul 1895		7'0" four coupled compound passenger engine		FALSE
31	C	16521		Arrangement of injector, blower and water gauge	28 Jan 1905		Steam motor carriage		FALSE
31	C	16520		Arrangement and details of spring gear for intermediate wheels	29 Jun 1905		4'3" eight wheel coupled coal engine (19 1/2" cylinders) and 5'2" diameter boilers	Also required for four other classes	FALSE
31	C	16518		Details of smokebox front fittings	20 Jun 1905		Numerous engines		FALSE
31	C	16517		General arrangement and details of injector gear	24 Jun 1905		Steam motor carriage	Also used for rail motor coaches with 11" x 16" cylinders	FALSE
31	C	16516		Details of brick arch and deflector plate	24 Jun 1905		Steam motor carriage		FALSE
31	C	16513		Details of frame plates and covering plates	9 May 1906		Class D: 4'3" eight wheel coal engine fitted with 5'2" dia. large boiler		FALSE
31	C	16513		Details of frame plates and covering plates	24 Mar 1916		Class F: 4'3" 4-cyl. compound coal engine fitted with large boiler 5'2" dia.		FALSE
31	C	16573		Details of roofing bars & stays for firebox	6 Jun 1913		4'3" eight wheel coupled coal engines with boiler 5'2" dia.		FALSE
31	C	16572		Detail of top footplate castings	18 Sep 1905	16 Feb 1946	4'3" eight wheel coupled coal engines with boiler 5'2" dia.		FALSE
31	C	16571		Detail of cab & panel plates	3 Oct 1905		4'3" eight wheel coupled coal engines with boiler 5'2" dia.		FALSE
31	C	16570		General arrangement of steam jet pipes in smokebox & wet sanding gear	10 Oct 1905	Feb 1907	4'3" eight wheel coupled coal engines with boiler 5'2" dia.		FALSE
31	C	16569		Detail of steel steam pipes & flanges in smokebox	13 Apr 1908		4'3" eight wheel coupled coal engines with boiler 5'2" dia.		FALSE
31	C	16569		Diagram of steam pipes	31 Mar 1908		4'3" eight wheel coupled coal engines with boiler 5'2" dia.		FALSE
31	C	16568		General arrangement of injectors & lubricating pipes for trailing axle	4 Oct 1905		4'3" eight wheel coupled coal engines with boiler 5'2" dia.		FALSE
32	C	16605		Details of wheels	30 Aug 1905	5 Mar 1914	6'0" four wheel coupled side tank passenger engine		FALSE
32	C	16695		Detail of cab and gate	12 Dec 1905		6'0" four wheel coupled side tank engine		FALSE
32	C	16689		Diagram of steam pipes	30 Jul 1908		6'0" four wheel coupled side tank engine		FALSE
32	C	16689		Details of steam pipes and flanges in smoke-box	11 Dec 1905	30 Aug 1907	6'0" four wheel coupled side tank engine		FALSE
32	C	16687		Details of front and back cab windows	12 Mar 1906		6'0" four wheel coupled side tank engine	Also used for 5'0" 6-wh. coupled goods and 5'6" 6-wh. coupled side tank engine	FALSE
32	C	16685		Details of steam and hand brake gear	5 Jan 1906		6'0" four wheel coupled side tank engine		FALSE
32	C	16682		Arrangement of baffle plate in steam dome	31 Mar 1908		6'0" four wheel coupled side tank engine (Precursor class)	Part also used for many other engines	FALSE
32	C	16682		Smoke-box plates and door	30 Nov 1905	30 Mar 1911	6'0" four wheel coupled side tank engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
32	C	16678		Steel castings for framework	20 Nov 1905		6'0" four wheel coupled side tank engine		FALSE
32	C	16667		Details of reversing shaft, brackets and lever	10 Nov 1905	26 Oct 1909	6'0" four wheel coupled side tank engine		FALSE
32	C	16647		Diagram of wooden boards for top of tanks	25 Jan 1932		Side tank engines		FALSE
32	C	16630		Detail of stamped splashers	20 Mar 1929		4'3" eight coupled coal engine (G, G1 and D)		FALSE
32	C	16628		Detail of leading spring	27 Jun 1917	20 Nov 1943	4'6" four coupled side tank engine, 2-4-2 type	Also used for six other classes	FALSE
32	C	16627		Boiler	5 Oct 1905	3 Apr 1939	6'0" four wheel coupled side tank engine		FALSE
32	C	16623		Spiral spring gear for driving wheels	18 Sep 1905	8 Feb 1925	6'6" four wheel coupled passenger engine		FALSE
32	C	16622		Details of tee pipe	18 Sep 1905		4'3" eight wheel coupled coal engine (19 1/2 inch cylinders) fitted with large boilers (5'2" dia)		FALSE
33	C	16781		Details of brackets for carrying outside covering plates	7 Apr 1915		4'3" eight wheel coupled coal engine (superheated) - Class G1	Also used for classes D and G	FALSE
33	C	16777		Details of axles and crank pins	19 Feb 1906	17 Jun 1907	6'0" four wheel coupled side tank engine		FALSE
33	C	16776		Details of wood blocks for footplate	19 Feb 1906		6'0" four wheel coupled side tank engine		FALSE
33	C	16774		Arrangement and details of cylinder cock gear	14 Feb 1906		6'0" four wheel coupled side tank engine	Changes made after first 30 engines	FALSE
33	C	16773		Details of sand gear	17 Feb 1906		6'0" four wheel coupled side tank engine	Changes made after first 30 engines	FALSE
33	C	16772		General arrangement of leading and trailing sand gear	24 Jun 1913		6'0" four wheel coupled side tank engine		FALSE
33	C	16767		Details of hand rails and vacuum pipes	9 Feb 1906		6'0" four wheel coupled side tank engine		FALSE
33	C	16753		Arrangement and details of reversing gear	7 Feb 1906	18 Oct 1935	6'0" four wheel coupled side tank engine		FALSE
33	C	16749		General arrangement of smoke box	1 Feb 1906		6'0" four wheel coupled side tank engine		FALSE
33	C	16743		General arrangement and details of injector gear	23 Jan 1906		6'0" four wheel coupled side tank engine		FALSE
33	C	16740		Diagram sheet of panel plate tank and bunker handrails	16 Dec 1905		Very many classes of engine and types of tender		FALSE
33	C	16736		Details of regulator, stand pipe and tee pipe	12 Jan 1906		6'0" four wheel coupled side tank engine		FALSE
33	C	16726		Spring gear for trailing wheels	27 Apr 1906		6'0" four wheel coupled tank engine	Also used for 5'6" six coupled side tank engine	FALSE
33	C	16712		Arrangement and details of damper gear	23 Jan 1906		6'0" four wheel coupled side tank engine		FALSE
33	C	16711		General arrangement of ashpan	23 Dec 1905	16 Jul 1934	6'0" four wheel coupled side tank engine		FALSE
33	C	16701		Details of motion plate, cross stay and trailing hornblock	18 Dec 1905	12 Jun 1906	6'0" four wheel coupled side tank engine		FALSE
34	C	16872		Bletchley steam shed - arrangement of hydraulic machinery, etc.	9 May 1906	23 Sep 1931	Bletchley steam shed		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
34	C	16825		End elevations	31 Mar 1906		6'0" four wheel coupled side tank engine, cylinders 19" diameter, 26" stroke	Drawing inscribed "First engine built May 1906" signed by C. Whale	FALSE
34	C	16839		General arrangement of sand gear	11 Apr 1906		4'3" four cylinder compound coal engine - Class F		FALSE
34	C	16832		General arrangement of radial truck	28 Mar 1906		5'0" six wheel coupled goods engine	Also used for several other engines	FALSE
34	C	16831		Details of sand gear	7 Apr 1906	27 Feb 1907	4'3" four cylinder compound coal engine - Class F	Also used for several other engines	FALSE
34	C	16826		Details of castings	31 Mar 1906		5'0" six wheel coupled goods engine - cylinders 19" x 26"		FALSE
34	C	16823		Details of axles and crank pins	2 Mar 1906	1 Jan 1913	5'0" six wheel coupled goods engine - cylinders 19" x 26"		FALSE
34	C	16820		Arrangement and details of reversing gear	26 Mar 1906		4'3" four cylinder compound coal engine		FALSE
34	C	16816		Arrangement of wheels and balance weights	22 Mar 1906		5'0" six wheel coupled goods engine - cylinders 19" x 26"		FALSE
34	C	16812		Details of castings for radial truck	16 Mar 1906		5'0" six wheel coupled goods engine -19" cylinders		FALSE
34	C	16807		Sandboxes and detail castings for trailing wheels	12 Mar 1906	22 Nov 1906	6'6" four wheel coupled passenger engine (Precursor class)		FALSE
34	C	16806		Diagram of firebox shewing position of lagging plate studs	25 Oct 1920		5'0" six coupled goods engine		FALSE
34	C	16806		Boiler	7 Mar 1906	7 Aug 1936	5'0" six wheels coupled goods engine		FALSE
34	C	16891		Details of miscellaneous springs	11 Apr 1913		General		FALSE
34	C	16884		Arrangement of steam jet pipes in smoke-box	8 Jun 1906	17 Aug 1911	4'3" four cylinder compound coal engine		FALSE
34	C	16883		Standard 11mm re-starting injector	24 May 1906		Standard		FALSE
34	C	16878		General arrangement of smoke-box	26 Jun 1906		4'3" four cylinder compound coal engine fitted with large boilers 5'2" diameter		FALSE
34	C	16865		General arrangement of steam brake gear	27 Apr 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
34	C	16863		Details of steam brake gear	30 Apr 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
34	C	16852		Arrangement of lubricating pipes for piston rods, valve spindles and trailing axleboxes	27 Apr 1906		4'3" four cylinder compound coal engine fitted with large boilers 5'2" diameter		FALSE
34	C	16846		Diagram pf reversing levers for locomotives	7 Apr 1906	1915	Many classes of goods and passenger engines		FALSE
34	C	16843		General arrangement of auto-vacuum brake and carriage heating apparatus	11 Apr 1906		6'0" four wheel side tank engine		FALSE
34	C	16842		General arrangement of auto-vacuum brake and carriage heating apparatus	11 Apr 1906		6'0" four wheel side tank engine		FALSE
34	C	16841		Arrangement of lubricators and oil pipes	21 Apr 1906		6'0" four wheel side tank engine		FALSE
34	C	16838		Hand wheel for reversing and brake gear	10 Apr 1906		Many classes of goods and passenger engines		FALSE
34	C	16855		Detail of engine number plate shewing arrangement of figures	7 Apr 1915		Standard		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
35	C	16999		General arrangement and details of cylinder cock gear	19 Sep 1906	19 Aug 1914	4'3" eight wheel coupled coal engine (20 1/2" cylinders) four-cylinder compound converted		FALSE
35	C	16978		Breakdown van	20 Aug 1889		Break down van		FALSE
35	C	16974		Diagram of steam pipes	31 Mar 1908		4'3" eight wheel coupled coal engine 20 1/2" diameter cylinders		FALSE
35	C	16974		Diagram of steam pipes and flanges in smokebox	10 Aug 1906		4'3" eight wheel coupled coal engine (20 1/2" cylinders) four-cylinder compound converted		FALSE
35	C	16972		Radial axlebox for trailing end	11 Aug 1906		6'0" four wheel coupled tank engine	Used for three other classes	FALSE
35	C	16970		General arrangement of smokebox	10 Aug 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
35	C	16967		Arrangement and details of cylinder cock gear	10 Aug 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
35	C	16965		Details of handrails and vacuum pipes	4 Aug 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
35	C	16964		Arrangement of steam brake exhaust pipes	10 Aug 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
35	C	16963		General arrangement of auto vacuum brake gear	11 Aug 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
35	C	16961		Arrangement of steam heating apparatus	10 Aug 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
35	C	16960		Details of castings for sand gear	10 Aug 1906	May 1909	5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
35	C	16951		General arrangement of reversing gear	27 Jul 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
35	C	16950		Detail of metallic packing for piston rods	20 Jul 1906		4'3" eight wheel coupled coal engine (20 1/2" cylinders) four-cylinder compound converted		FALSE
35	C	16949		Details of leading sandboxes, radius rod brackets, slide bars and piston rods	20 Jul 1906	19 Dec 1946	4'3" eight wheel coupled coal engine (20 1/2" cylinders) four-cylinder compound converted		FALSE
35	C	16945		General arrangement and details of injector gear	20 Jul 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
35	C	16939		General arrangement and details of damper gear	16 Jul 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
35	C	16930		Hornblocks and spring gear for coupled wheels	22 Jun 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
35	C	16928		Hand brake nut wrought iron forging	26 Jun 1906		5'0" side tank (18" cylinders), 4'6" side tank and 5'6" side tank engines		FALSE
35	C	16918		Standard water gauge for locomotives	13 May 1921		Standard fitting		FALSE
35	C	16917		General arrangement of ashpan and firebars	5 Jun 1906	16 Jul 1934	5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE
35	C	16900		Details of steam pipes and flanges in smoke-box	29 May 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
36	C	17133		Details of axles and crank pins	21 Feb 1919	12 Feb 1919	6'6" four wheels coupled passenger engine (Joy's valve motion) also 6'6" 4-coupled Precursor class		FALSE
36	C	17059		End elevations	19 Oct 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"	Drawing inscribed "First engine built December 1906" signed by C. Whale	FALSE
36	C	17196		Arrangement and details of roofing bar brackets for boilers 5'2" diameter	25 Apr 1907		10 classes of goods and passenger engines		FALSE
36	C	17194		Detail of adjusting nuts for engine pull rods	13 Jun 1907		26 classes of goods and passenger engines		FALSE
36	C	17174		Standard whistle stand, details of valves and fittings	20 May 1909		Standard fitting		FALSE
36	C	17172		Detail of piston rod gland with four studs	14 Mar 1907		18" cylinder goods and side tank engines		FALSE
36	C	17116		Arrangement of steam jet pipes in smokebox	8 Jan 1907	17 Feb 1911	5'0" 18" cylinder goods engine		FALSE
36	C	17113		Detail of blower and steam jet valve	21 Dec 1906		5'0" 18" cylinder goods engine		FALSE
36	C	17106		General arrangement of Wakefield's sight feed lubricator	21 Dec 1906		6'6" four wheels coupled passenger engine (Joy's valve motion)	Also used for several other classes	FALSE
36	C	17104		Water column - details	21 Dec 1906		Water column		FALSE
36	C	17093		Diagram of lubricators for connecting and coupling rods	2 Feb 1914		Many classes of goods and passenger engines		FALSE
36	C	17085		Steam and vacuum brake exhaust pipes in smokebox	21 Oct 1915	7 Jan 1937	Many classes of goods and passenger engines		FALSE
36	C	17084		General arrangement of spring gear	22 Nov 1906	1912	4'3" four cylinder compound coal engine (19 1/2" cylinders) fitted with large boilers 5'2" diameter		FALSE
36	C	17078		Hinges for tenders	29 May 1920		Standard fitting		FALSE
36	C	17064		Details of steam-pipes and flanges in smoke-box	26 Oct 1906		6'6" four wheels coupled passenger engine (Joy's valve motion) - Precursor class		FALSE
36	C	17063		Bracket on leading hornblock for radius rod shaft	6 Nov 1906		18" goods engine		FALSE
36	C	17047		Altered arrangement of leading, driving and intermediate spring gear	26 Oct 1906	10 Nov 1906	4'3" four cylinder eight wheels compound coal engine fitted with leading radial axlebox		FALSE
36	C	17044		Radial axlebox for trailing wheels - journal 6 1/2" diameter x 14"	19 Oct 1906		6'0" 4-wheel coupled side tank, 5'6" 6-wheel coupled side tank & 4'3" 8-wheel c'pled shunting engine		FALSE
36	C	17040		General arrangement of vacuum brake gear	25 Oct 1906	7 Oct 1920	4'3" six coupled saddle tank coal engine		FALSE
36	C	17028		Detail of smokebox plates	10 Oct 1906		4'3" eight wheel coupled coal engine (20 1/2" cylinders) four-cylinder compound converted		FALSE
36	C	17009		Diagram of handles for locomotives	25 Jul 1906		Many classes of gods and passenger engines		FALSE
36	C	17008		Details of steam brake cylinder and stayplate	28 Sep 1906		6'0" four coupled side tank engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
37	C	17398		Arrangement & details of cast steel wheels	14 Dec 1907		5'0 six wheel coupled goods engine		FALSE
37	C	17342		Lever for regulator for locomotive boilers	17 Aug 1911		14 classes		FALSE
37	C	17334		Diagram sheet of crossheads	10 Oct 1907		Many classes		FALSE
37	C	17265		Details of brake blocks for engine & tender	13 Aug 1920		4'3" four cyl. compound coal engine	Part copy	FALSE
37	C	17265		Diagram of wood brake blocks for engines & tenders	24 Jun 1907		Many classes		FALSE
37	C	17261		General arrangement & details of steam brake	13 Jun 1907		7'0" four coupled compound engine "Alfred the Great" class & "Jubilee " class to red dimensions		FALSE
37	C	17245		Diagram sheet of glass for cab windows	16 Aug 1934		Many classes		FALSE
37	C	17239		Diagram sheet of standard fire irons for locomotives	16 Feb 1926	13 Mar 1939			FALSE
37	C	17218		Details of swan neck for vacuum brake	3 May 1907		Special tank engine		FALSE
38	C	17577		Details of hornblocks and spring pads for driving wheels	16 Jun 1908	19 Dec 1946	6'6" 4 w.c. passenger engines "Precursor" class.	Also used for "Experiment", "Prince of Wales" & "George the Fifth" classes & 6'0" 4 w.c. side tank pass. engines	FALSE
38	C	17599		Standard wash out nozzles for locomotive boilers	17 Jul 1908				FALSE
38	C	17592		Wrought details of spring & friction gear for paper drums	10 Jul 1908		Dynamometer car		FALSE
38	C	17591		Details of axles	10 Jul 1908		Standard tenders		FALSE
38	C	17588		Details of forgings for paper driving gear	10 Jul 1908		Dynamometer car		FALSE
38	C	17583		Details of steam pipes in smokebox			6'6" 4 w. c. passenger engine "Precursor" class		FALSE
38	C	17582		Detail of steam pipe in smokebox	28 Aug 1911		6'0" 6 w.c. passenger engine "Experiment" class		FALSE
38	C	17576		Arrangement & details of brake gear fitted with cast iron blocks	8 Dec 1908		3000 gall. Tender		FALSE
38	C	17560		Detail of wheel lifting gear	22 May 1908		Dynamometer car		FALSE
38	C	17559		Details of castings for wheel lifting gear	29 May 1908		Dynamometer car		FALSE
38	C	17535		Details for gear driving shaft	14 May 1908		Dynamometer car		FALSE
38	C	17534		Details of sliding universal coupling for gear driving shaft	14 May 1908		Dynamometer car		FALSE
38	C	17533		Details of worm wheel, casing & brackets on gear driving shaft	14 May 1908		Dynamometer car		FALSE
38	C	17523		Arrangement & details of steam brake gear	7 May 1919		7'0" 4 w.c. passenger engine "Jubilee " class converted		FALSE
38	C	17464		Diagram sheet of engine crank pins	11 Jun 1930				FALSE
38	C	17458		Details of draw gear & gear driving wheel	26 Feb 1908		Dynamometer car		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
38	C	17457		Steel steam pipe			7'0" 4 w.c. passenger engine 18.5" cyls.		FALSE
38	C	17451		Arrangement & details of cylinder cock gear	25 Feb 1908		7'0" 4 w.c. passenger engine "Jubilee" class converted	Same as used for "Precursor" class	FALSE
38	C	17450		Alteration to ash pan door	3 Mar 1908		18" goods engine	Also used for engines built after 21 Jan 1908	FALSE
38	C	17434		Diagram of standard draw bars between engine & tender	31 Dec 1907				FALSE
38	C	17430		Details of piston rod & slide bars	27 Jan 1908		7'2" 4 w.c. passenger engine "Jubilee" class converted		FALSE
38	C	17425		Details of vacuum alarm & indicator	21 Jan 1908				FALSE
38	C	17411		Detail of cylinders	20 Dec 1907		7'0" 4 w.c. passenger engine "Jubilee" class converted		FALSE
38	C	17408		Details of misc. castings	2 Jan 1908	3 Jun 1925	7'0" 4 w.c. passenger engine "Jubilee" class converted		FALSE
38	C	17404		Details of piston & cylinder covers	30 Dec 1907		7'0" 4 w.c. passenger engine "Jubilee" class converted		FALSE
39	C	17790		Details of steam blower for locomotives	none		c40 classes of goods and passenger engine		FALSE
39	C	17783		Steam valve and stuffing box for Gresham and Craven's injector	12 Mar 1909		Steam motor carriage		FALSE
39	C	17770		General arrangement of longitudinal stays	8 Apr 1909	1921	10 classes of goods and passenger engine		FALSE
39	C	17769		General arrangement of longitudinal stays	16 Feb 1909		8 classes of goods and passenger engine		FALSE
39	C	17752		Details of hornplates, hornblock tie bars, life guards, handrails, etc.	20 Jan 1909		Standard tenders		FALSE
39	C	17745		Details of drawgear at leading end	8 Jan 1909		Dynamometer car		FALSE
39	C	17737		Details of piston and cylinder covers	22 Dec 1908		4'3" 8 wheel coupled coal engine, Class C1, cylinders 18 1/2" x 24"		FALSE
39	C	17730		Details of footplate, corner bracket and footstep	22 Dec 1908		7'0" 4 coupled passenger engine, 18 1/2" cylinders		FALSE
39	C	17729		Arrangement and details of spark deflector plate in smokebox	22 Dec 1908		6'6" 4 coupled passenger engine, Precursor class		FALSE
39	C	17708		Diagram of Wakefield's sight feed lubricator	3 Jun 1907		General		FALSE
39	C	17702		Lubricator and connections on back of firebox	19 Nov 1908		28 classes of goods and passenger engine		FALSE
39	C	17700		Standard cylinder cock with plug valve	20 Nov 1908		Standard		FALSE
39	C	17693		Arrangement of driving and recording gear	4 Nov 1908		Dynamometer car		FALSE
39	C	17690		Details for drawgear at leading end	12 Nov 1908		Dynamometer car		FALSE
39	C	17667		Wrought details of traction and mileage gear	21 Oct 1908		Dynamometer car		FALSE
39	C	17662		Details of castings for mileage recorder	21 Oct 1908		Dynamometer car		FALSE
39	C	17661		Arrangement of dial and casing for Boyer speed recorder	19 Oct 1908		Dynamometer car		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
39	C	17660		General arrangement of traction recording dial and gear	9 Oct 1908		Dynamometer car		FALSE
39	C	17643		Arrangement and details of driving gear for Boyer speed recorder	21 Sep 1908		Dynamometer car		FALSE
39	C	17635		Arrangement and details of feed water gear	8 Sep 1908		Standard tenders		FALSE
39	C	17634		Detail of hatch plate on frame over driving horn	5 Aug 1920		6'0" 6 coupled passenger engine, Prince of Wales class		FALSE
39	C	17624		Smokebox for engines with rectangular slide valves	8 Jun 1900	31 Jul 1903	5'0" 6 wheels coupled side tank engine (18" cylinders)		FALSE
39	C	17619		Details of castings for fire-box	6 Aug 1908		4'0" 4 coupled shunting engine		FALSE
39	C	17613		Detail of recording table	24 Jul 1908		Dynamometer car		FALSE
39	C	17612		Cast details, recording bracket, etc.	31 Jul 1908		Dynamometer car		FALSE
39	C	17611		Arrangement of friction clutches for paper rolls	24 Jul 1908		Dynamometer car		FALSE
39	C	17610		Details of barrel spindles and tie rods for recording table	24 Jul 1908		Dynamometer car		FALSE
39	C	17609		Details of paper drums for recording table	24 Jul 1908		Dynamometer car		FALSE
39	C	17604		Water pickup apparatus, detail of delivery pipe in tank	11 May 1920		Standard tenders		FALSE
40	C	17995		Details of reversing shaft, rod and lever	4 Jan 1910		Rail motor coach 11" x 16" cylinders		FALSE
40	C	17994		Forgings for connecting rod	4 Jan 1910		Rail motor coach 11" x 16" cylinders		FALSE
40	C	17993		Details of connecting rod	24 Feb 1913		Rail motor coach 11" x 16" cylinders		FALSE
40	C	17992		Details of hornblocks, axleboxes and tie-bars	18 Dec 1909		Rail motor coach 11" x 16" cylinders		FALSE
40	C	17988		General arrangement and details of ashpan	18 Dec 1909		Rail motor coach 11" x 16" cylinders		FALSE
40	C	17984		Exhaust pipe castings for feed water heater	18 Dec 1909		6'0" side tank engine		FALSE
40	C	17976		General arrangement and details of exhaust pipes	14 Dec 1909		Rail motor coach 11" x 16" cylinders		FALSE
40	C	17974		Details of piston rod slide bars and crosshead	14 Dec 1909		Rail motor coach 11" x 16" cylinders		FALSE
40	C	17971		Detail of boiler	14 Dec 1909		Rail motor coach 11" x 16" cylinders		FALSE
40	C	17967	PC	Detail of axlebox step with white metal bearing	30 Oct 1912		3000 gallon tender with sliding type axleboxes		FALSE
40	C	17967		Detail of axlebox (sliding type)	7 Sep 1909	23 May 1938	3000 gallon tender 10" x 5" journal		FALSE
40	C	17965		Detail of motion plate	22 Nov 1909		Rail motor coach 11" x 16" cylinders		FALSE
40	C	17961		Details of forgings for sand gear	28 Apr 1920		Prince of Wales class		FALSE
40	C	17961		Details of forgings for sand gear	16 Apr 1915		6'0" 6 coupled passenger engine, Experiment and Prince of Wales classes		FALSE
40	C	17960		Arrangement of sand gear	12 Nov 1909		6'0" 6 coupled passenger engine, Experiment and Prince of Wales classes		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
40	C	17954		Details of regulator valve and connections	8 Nov 1909		Rail motor coach 11" x 16" cylinders		FALSE
40	C	17947		Details of piston head cylinder covers and steam chest cover	1 Nov 1909		Rail motor coach 11" x 16" cylinders		FALSE
40	C	17945		Details of castings for sand gear	16 Apr 1915		6'0" 6 coupled passenger engine, Experiment and Prince of Wales classes	Also used for 5'0" six coupled goods engines (19" x 26" cylinders)	FALSE
40	C	17934		Details of cylinders	15 Oct 1909		Rail motor coach 11" x 16" cylinders		FALSE
40	C	17916		Diagram of steam pipes	13 Sep 1909		4'3" four cylinder compound coal engine, with 5'2" boilers		FALSE
40	C	17914		Steam brake gear, driver's brake valve	3 Nov 1909	14 Aug 1946	4'3" 8 wheels coupled coal engine, 20 1/2" cylinders		FALSE
40	C	17913		Arrangement of lubricators and oil pipes	23 Sep 1909		4'3" 8 wheels coupled coal engine, 20 1/2" cylinders		FALSE
40	C	17912		General arrangement of Wakefield's sight-feed lubricator	17 Aug 1909		4'3" 8 wheels coupled coal engine, 20 1/2" cylinders		FALSE
40	C	17898		General arrangement of smokebox	14 Jul 1909		4'3" 8 wheels coupled coal engine, 20 1/2" cylinders with 24" stroke		FALSE
40	C	17889		Wakefield's sight-feed lubricator	22 May 1909		General fitting		FALSE
40	C	17874		Details and arrangement for locking doors of tool boxes	24 Jun 1909		Side tank engines		FALSE
40	C	17871	PC	Details of step with white metal bearing	30 Oct 1912		3000 gallon tender with axleboxes for axles without end collars		FALSE
40	C	17871		Details of axlebox	none	Mar 1916	3000 gallon tender		FALSE
40	C	17831		Details of piston, and cylinder and steam chest covers	11 May 1909	13 Aug 1940	4'3" 8 wheels coupled coal engine, 20 1/2" cylinders		FALSE
41	C	18098		Details of piston rod and slide bars	3 Mar 1910	25 Feb 1941	5'6" 6 coupled side tank engine		FALSE
41	C	18097		Details of frames for wire gauze	28 May 1920		3000 gallon tender with water bottom tank and sloping bunker		FALSE
41	C	18090		Detail of air vessel, pipes and connections for feed pump, forgings, etc.	19 Feb 1910		6'0" 4 wheel coupled side tank engine (fitted with feed water heater)		FALSE
41	C	18088		Diagram for setting valves	24 Feb 1910		Various 4'3" 8 wheels coupled coal engines		FALSE
41	C	18078		Blast pipes for passenger engines, sheet 3	1 May 1911		5 classes of engine		FALSE
41	C	18077		Details of reversing shaft, brackets and lever	4 Mar 1910		6'6" George V Class, fitted with superheater	Also Experiment class	FALSE
41	C	18076		Boiler	18 Jul 1922	22 Mar 1939	6'6" George V Class, 4 coupled passenger engine		FALSE
41	C	18075		Details of frame plates	15 Feb 1910	18 Dec 1946	6'6" George V Class, 4 coupled passenger engine, fitted with superheater		FALSE
41	C	18069		Details of forgings, pipes and castings for feedwater heater	17 Feb 1910		6'0" side tank engine		FALSE
41	C	18047		Details of wheels	7 Feb 1910	5 Mar 1914	5'6" 6 coupled side tank engine		FALSE
41	C	18043		Details of forgings	3 Feb 1910		3000 gallon tender with water bottom tank and sloping bunker		FALSE
41	C	18041		General arrangement and details of steam pipes	3 Feb 1910		Rail motor coach 11" x 16" cylinders		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
41	C	18040		Arrangement and details of cylinder cock gear	3 Feb 1910		Rail motor coach 11" x 16" cylinders		FALSE
41	C	18038		Details of castings	3 Feb 1910		3000 gallon tender with water bottom tank and sloping bunker		FALSE
41	C	18030		Arrangement and details of sand gear	1 Feb 1910		Rail motor coach 11" x 16" cylinders		FALSE
41	C	18021		Feed valve castings and details for feed water heater	22 Jan 1910		6'0" side tank engine		FALSE
41	C	18016		Details of lagging for boiler	12 Jan 1910		Rail motor coach 11" x 16" cylinders		FALSE
41	C	18013		Details of eccentrics and eccentric rods	17 Jan 1910		Rail motor coach 11" x 16" cylinders		FALSE
41	C	18012		Details of water tank under coach	14 Jan 1910		Rail motor coach 11" x 16" cylinders		FALSE
41	C	18011		Arrangement of water tanks	14 Jan 1910		Rail motor coach 11" x 16" cylinders		FALSE
41	C	18006		Details of axles and crank pins	4 Jan 1910		Rail motor coach 11" x 16" cylinders		FALSE
41	C	18004		Details of coupling rods	4 Jan 1910		Rail motor coach 11" x 16" cylinders		FALSE
41	C	18002		Details of valve motion	4 Jan 1910		Rail motor coach 11" x 16" cylinders		FALSE
41	C	18001		Details of water tank under coach (between accumulators)	4 Jan 1910		Rail motor coach 11" x 16" cylinders		FALSE
42	C	18134		Details of cylinder cock gear (cocks and bracket)	11 Feb 1919		6'6" George V Class		FALSE
42	C	18126		Detail of bracket for rocking lever	26 Sep 1917		6'6" George V Class, 4 coupled passenger engine, fitted with superheater	Also used for 6'0" Prince of Wales and 4'3" 8 coupled coal engine G1 class	FALSE
42	C	18125		Detail of steam chest covers	28 Apr 1920	3 Sep 1936	6'6" George V Class, 4 coupled passenger engine, fitted with superheater		FALSE
42	C	18135		Auto vacuum brake, elbows at leading end	12 Apr 1910		6'6" George V Class, fitted with superheater		FALSE
42	C	18136		Details of rocking shaft and valve rods	13 Apr 1910	6 Jun 1911	6'6" George V Class, fitted with superheater	Also used for Prince of Wales class	FALSE
42	C	18117		Details of piston rod and slide bars	24 Mar 1910	26 Feb 1941	6'6" George V Class, 4 coupled passenger engine, fitted with superheater		FALSE
42	C	18116	PC	Details of covering and stiffening plates	24 Mar 1910		6'6" George V Class, fitted with superheater		FALSE
42	C	18163		Details of steam pipes	1 Jul 1910		6'6" George V Class, fitted with superheater	One engine only for experimental purposes	FALSE
42	C	18176		Details of handrails and vacuum pipes	14 May 1910	25 Nov 1918	6'6" George V Class, 4 coupled passenger engine, with cylinders fitted with piston valves		FALSE
42	C	18156		Details of connecting pipes and flanges for steam pipes	25 May 1915		6'6" George V Class		FALSE
42	C	18116		Details of covering plates	2 Oct 1913		6'6" George V Class, 4 coupled passenger engine		FALSE
42	C	18185		Details of axles & crank pins	18 May 1910		5'6" 6 w.c. side tank engine		FALSE
42	C	18183		Arrangement & details of reversing gear	19 May 1910	18 Oct 1935	5'6" 6 w.c. side tank engine		FALSE
42	C	18178		Detail of trailing tank & coal bunker	7 May 1910		5'6" 6 w.c. side tank engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
42	C	18177		Misc. details for side tanks & bunker	14 Feb 1911	21 Sep 1922	5'6" 6 w.c. side tank engine		FALSE
42	C	18174		Details of smokebox & superheater damper plates	3 May 1910	25 Nov 1918	6'6" "George the Fifth" class fitted with superheater		FALSE
42	C	18173		Regulator shaft under coaches			Train for Watford, St. Albans & Rickmansworth branches		FALSE
42	C	18168		Details of steel castings	22 Apr 1910		5'6" 6 w.c. side tank engine		FALSE
42	C	18166		Details of covering plates, beading angles & fall plate	28 May 1920	29 Apr 1944	3000 gall. tender with sloping bunker		FALSE
42	C	18165		Details of bracket for carriage heating pipe	26 Apr 1910		3000 gall. tender with water bottom tank and sloping bunker		FALSE
42	C	18162		Details of reversing shaft brackets & lever	26 Apr 1910		5'6" 6 w. c. side tank engine. Also used for 6 other classes		FALSE
42	C	18161		Details of valve motion	5 Jan 1915		5'6" 6 w.c. side tank engine		FALSE
42	C	18158		Arrangement & detail of lubricating pipes etc: for cylinders	16 Apr 1910		6'6" "Precursor" class fitted with superheater		FALSE
42	C	18155		Details of casing over pick up pull rod	28 May 1920		3000 gall. tender with sloping bunker		FALSE
42	C	18154		Details of casing over hand brake pull rod	28 May 1920		3000 gall. tender with sloping bunker & water bottom tank		FALSE
42	C	18148		Hornblocks & spring gear for coupled wheels	11 Apr 1910	19 Dec 1946	5' 6" 6 w.c. side tank engine		FALSE
42	C	18141		Details of air pipes on tank	14 Apr 1910		3000 gall. tender with sloping bunker & water bottom tank		FALSE
42	C	18133		Arrangement & details of cylinder cock gear	13 Apr 1910		6'6" 4 w.c. "George the Fifth" class with superheater		FALSE
42	C	18128		Detail of side tanks	31 Jul 1913		5'6" 6 w.c. side tank engine		FALSE
42	C	18124		Details of steel castings	5 Apr 1910		6'6" "George the Fifth" class fitted with superheater		FALSE
42	C	18115		Arrangement of pipes from feed pumps to footplate, also clack boxes on boiler & stay for delivery pipes			6'0" 4 w.c. side tank engine (fitted with feed water heater)		FALSE
42	C	18112		Arrangement & details of feed water gear	12 Mar 1910		3000 gall. tender with sloping bunker & water bottom tank		FALSE
42	C	18107		Details of regulator gear	2 Mar 1910		Rail motor coach cyls. 11" x 16"		FALSE
42	C	18106		Details of Greshams No. 25 combination ejector	2 Mar 1910		Rail motor coaches		FALSE
42	C	18105		General arrangement of regulator gear	9 Mar 1910		Rail motor coach cyls. 11"x16"		FALSE
42	C	18104		General arrangement of feed water heater	5 Mar 1910		6'0" side tank engine		FALSE
42	C	18101		General arrangement of feed pumps	2 Mar 1910		6'0" 4 w.c. side tank engine fitted with feed water heater		FALSE
42	C	18190		Detail of front cab windows	27 May 1910	16 Sep 1937	5'6 6 w.c. side tank engine		FALSE
43	C	18266		Driving & trailing wheels	3 Jan 1916		6'6" 4 w. c. passenger engines "Precursor" & "George the Fifth" classes		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
43	C	18256		Details of wood block & arrangement of pressure gauges on right hand side of cab	24 Apr 1915		"George the Fifth" class, "Prince Of Wales" class, 5'6" 6 w.c. side tank & 4'3" 8 w.c.goods G1	Superheater engines	FALSE
43	C	18298		Regulator handle & rod	13 Oct 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18296		General arrangement of sand gear	13 Oct 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18294		Arrangement & details of vacuum reservoir	12 Oct 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18291		Details of steam box & clack box for hot water injectors	10 Oct 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18290		Details of castings for feed water heater	10 Oct 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18288		Details of sand gear	6 Oct 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18286		Automatic vacuum brake details of steam valves	4 Oct 1910	15 Aug 1946	5'6" 6 w.c. side tank engine		FALSE
43	C	18283		Details of air valves for automatic vacuum brake	27 Sep 1910	14 Apr 1919	5'6" 6 w.c. side tank engine		FALSE
43	C	18277		Arrangement & details of feed water gear	12 Sep 1910	3 Aug 1911	5'6" 6 w.c. side tank engine		FALSE
43	C	18275		Details of lagging for boiler	12 Sep 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18274		Details of cover for back end of cylinders fitted with liners	15 Sep 1910		4'6" 4 w.c. passenger engine		FALSE
43	C	18273		Detail of front cylinder cover for cylinders fitted with liners	16 Sep 1910	31 Jul 1942	4'6" 4 w.c. passenger engine		FALSE
43	C	18272		Detail of piston for cylinders fitted with liners	16 Sep 1910	16 Apr 1941	4'6" 4 w.c. passenger engine		FALSE
43	C	18269		General arrangement of Crewe injectors	12 Sep 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18268		General arrangement & details for working Wakefields mechanical lubricator with ratchet gear	29 Sep 1910		6'6" 4 w.c. passenger engine "George the Fifth" class		FALSE
43	C	18267		Cover plates for pipes through footplate for engines fitted with hot water injectors & exhaust steam injectors	16 Sep 1910		5'6" 6 w.c. side tank, 6'6" 6 w.c. 4-cyl. "Claughton" class with exhaust steam injectors 1924 type		FALSE
43	C	18260		Water gauge for boiler	5 Nov 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18253		Details of metallic packing	No date	30 May 1914	5'6" 6 w.c. side tank engine: non-superheated		FALSE
43	C	18251		Details of valves & liners	26 Aug 1910		6'6" "Precursor" class fitted with piston valves & 5'6" 6 w. c. side tank engines		FALSE
43	C	18247		Detail of cab	10 Aug 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18244		Details of castings for water pick up apparatus	10 Aug 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18242		Arrangement & details of cylinder cock gear	10 Aug 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18238		Details of cylinders 18.5" dia. X 26" stroke	29 Jul 1910		5'6" 6 w.c. side tank engine: without superheater		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
43	C	18235		Details of steam jet pipes in smokebox	28 Jul 1910		5'6" 6 w.c. side tank engine: without superheater		FALSE
43	C	18229		Details of boiler mountings	14 Jul 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18225		Details of footplate gate	1 Jul 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18223		General arrangement & details of damper gear	1 Jul 1910		5'6" 6 w.c. side tank engine		FALSE
43	C	18217		Detail of boiler tube plates	1 Jul 1910		5'6" 6 w.c. side tank engine without superheater	Rider to 18217	FALSE
43	C	18217		Detail of boiler	24 Jun 1910	3 Apr 1939	5'6" 6 w.c. side tank engine with superheater		FALSE
43	C	18216		Smokebox plates & door	18 Jun 1910	29 Mar 1911	5'6" 6 w.c. side tank engine		FALSE
43	C	18214		Arrangement & details of steam valve for large ejector: vacuum brake	18 Jun 1910		4'0" shunting engine		FALSE
43	C	18213		Arrangement of lubricators & pipes	11 Jul 1912		6'6" "George the Fifth" class cyls. 20.5" dia. x 26" stroke		FALSE
43	C	18208		Details of forged stays for boiler	8 Jun 1910		5'6" 6 w.c. side tank engine	Longitudinal & firebox cross stays material as in BSS report 24 part 6 1921 spec. No. 16, 26/30 tons tensile	FALSE
43	C	18201		Arrangement & details of Randle's experimental brick arch	3 Jun 1910		6'6" 4 w.c. passenger engine "Precursor" class		FALSE
44	C	18397		Diagram sheet of hornblocks - sheet 3	31 Jan 1911		5'6" 6 coupled side tank engine and 6'6" 6-coupled passenger engine (4 cylinders) ("Claughton")		FALSE
44	C	18395		Arrangement and detail of notice plates for working exhaust steam valve, cylinder cock and damper rods	29 Jan 1911		5'6" 6 coupled side tank engine		FALSE
44	C	18389		Details of water connection between side tank and bunker	21 Jan 1911		5'6" 6 coupled side tank engine		FALSE
44	C	18387		General arrangement of blast pipe gear	20 Jan 1911		George V and Queen Mary classes		FALSE
44	C	18385		Standard vacuum brake hose coupling and gauges	13 Jan 1911		Standard fitting		FALSE
44	C	18383		New arrangement of steel trailing hornblocks, etc.	3 Jan 1911		7'0" 4 wheel coupled compound passenger engine		FALSE
44	C	18382		Details of bunker doors	7 Jan 1911		3000 gallon tender with water bottom tank and sloping bunker		FALSE
44	C	18380		Details of wrought work for variable blast pipe gear	4 Jan 1911		George V and Queen Mary classes		FALSE
44	C	18379		General arrangement and details for working "Trusty" mechanical lubricator	31 Dec 1910		6'6" George V class		FALSE
44	C	18376		Arrangement and details of gear for straight plate springs	4 Jan 1911	8 May 1943	3000 gallon tender		FALSE
44	C	18370		Details of bracket etc. for variable blast pipe gear	29 Dec 1910		George V and Queen Mary classes		FALSE
44	C	18369		Arrangement and detail of drain cup and pipe for snifting valve	none		5'6" 6 coupled side tank engine		FALSE
44	C	18367	PC	Diagram of asbestos mattresses for cylinders and cylinder covers	19 Mar 1921	3 Jan 1911	Prince of Wales class		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
44	C	18366		Hydraulic lift for footbridge between London Road and Mayfield stations	29 Dec 1910		Footbridge		FALSE
44	C	18367		Asbestos mattresses for cylinders	21 Dec 1910	19 Nov 1913	Many classes		FALSE
44	C	18366		General arrangement of smokebox	2 Jan 1911	8 Nov 1918	5'6" 6 coupled side tank engine with superheater		FALSE
44	C	18360		General arrangement of smokebox	12 Dec 1910		5'6" 6 coupled side tank engine without superheater		FALSE
44	C	18359		Details of variable blast pipes	15 Dec 1910		George V and Queen Mary classes		FALSE
44	C	18355		Standard 15-ton hook, with ball bearings	6 Dec 1910	24 Oct 1912	Crane hook		FALSE
44	C	18346		Diagram of S and P pipe with flange branch to suit standard sluice valves	none		Water pipes (possibly for washing out)		FALSE
44	C	18344		Details of superheater damper plates	11 Nov 1910		5'6" 6 coupled side tank engine with superheater		FALSE
44	C	18343		Arrangement and details of superheater damper gear	11 Nov 1910		5'6" 6 coupled side tank engine		FALSE
44	C	18341		General arrangement of variable blast pipe	18 Nov 1910		5'6" 6 coupled side tank engine		FALSE
44	C	18339		General arrangement of feed water gear for engines fitted with Crewe injectors	11 Nov 1910		5'6" 6 coupled side tank engine		FALSE
44	C	18332		Wrought detail gear for working adjustable cone in blast pipe	7 Nov 1910		5'6" 6 coupled side tank engine		FALSE
44	C	18331		Cast details for blast pipe fitted with adjustable cone	7 Nov 1910		5'6" 6 coupled side tank engine		FALSE
44	C	18327		Hot water injector (Davies & Metcalfe's) details of flanges	5 Nov 1910		5'6" 6 coupled side tank engine		FALSE
44	C	18325		Arrangement and details of hot water injectors	5 Nov 1910		5'6" 6 coupled side tank engine		FALSE
44	C	18322		General arrangement of auto vacuum brake pipes and carriage heating apparatus (end views)	4 Nov 1910		5'6" 6 coupled side tank engine		FALSE
44	C	18321		General arrangement of auto vacuum brake gear and carriage heating apparatus (elevation and plan)	4 Nov 1910		5'6" 6 coupled side tank engine		FALSE
44	C	18319		Details of release valve and connections for vacuum sack	4 Nov 1910		5'6" 6 coupled side tank engine		FALSE
44	C	18318		Arrangement of lubricator and pipes	4 Nov 1910		5'6" 6 coupled side tank engine without superheater		FALSE
44	C	18316		General arrangement of feed water heater	5 Nov 1910		5'6" 6 coupled side tank engine		FALSE
44	C	18314		Details of steam pipes in smokebox	4 Nov 1910	16 Jan 1934	5'6" 6 coupled side tank engine with superheater		FALSE
44	C	18313		Arrangement and details of 24" vacuum brake sack	4 Nov 1910		5'6" 6 coupled side tank engine		FALSE
44	C	18306		Details of hand-rails and vacuum pipes for engine with superheater	18 Oct 1910		5'6" 6 coupled side tank engine		FALSE
44	C	18304		Details of steam pipes and flanges in smoke box	12 Oct 1910		5'6" 6 coupled side tank engine with superheater		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
44	C	18300		Details of pipes etc. for feed water heater (required for engines fitted with hot water injectors only)	14 Oct 1910		5'6" 6 coupled side tank engine		FALSE
45	C	18468		General overview of engine, first built January 1911	21 Jan 1911		5'6" 6 coupled side tank engine with superheater, cylinders 24" diameter, 26" stroke		FALSE
45	C	18493		Detail of covering plates	20 Dec 1920		4'3" 8 coupled side tank shunting engine		FALSE
45	C	18491		Detail of trailing tank and coal bunker	1 May 1911	2 Feb 1920	4'3" 8 coupled side tank shunting engine		FALSE
45	C	18489		Detail of cab	5 May 1911		4'3" 8 coupled side tank shunting engine		FALSE
45	C	18477		Outline of frames	27 Apr 1911		4'3" 8 coupled side tank shunting engine		FALSE
45	C	18460		Details of footplate, corner brackets and footsteps	29 Mar 1911	July 1912	6'0" Prince of Wales class, Experiment class fitted with steam brake		FALSE
45	C	18451		Diagram of protection plate on inside of smoke-box front	29 Mar 1911		11 classes of engine		FALSE
45	C	18447		Arrangement and detail of exhaust steam surface feed water heater	21 Mar 1911		5'6" 6 coupled side tank engine		FALSE
45	C	18446		Arrangement and detail of standard fire-hole door	21 Mar 1911		4'6" 4 coupled side tank engines for motor trains		FALSE
45	C	18437		General arrangement of whistle stand	21 Mar 1911		5'6" 6 coupled side tank engine		FALSE
45	C	18434		Arrangement and details for working "Wakefield's" mechanical lubricator	13 Mar 1911		6'0" 6 coupled passenger engine Experiment class	Also used for 6'0" Prince of Wales class	FALSE
45	C	18433		Arrangement and details for working "Wakefield's" mechanical lubricator	13 Mar 1911		6'6" 4 coupled passenger engine, Precursor class	Some items the same as for 6'6" George V class	FALSE
45	C	18431		Details for boiler	13 Mar 1911		6'0" 6 coupled passenger engine Prince of Wales class (Experiment class superheated)		FALSE
45	C	18426		Diagram showing valve setting for locomotive cylinders	22 Feb 1911		Many classes of engine		FALSE
45	C	18425		Diagram of boiler shewing superheater valves	7 Mar 1911		6'0" 6 coupled passenger engine Prince of Wales class		FALSE
45	C	18406		Diagram of boiler shewing superheater header and tubes	none		5'6" 6 coupled side tank engine		FALSE
45	C	18405		Arrangement of steam jet pipes in smoke-box	14 Feb 1911		5'0" 6 coupled goods engine (cylinders 18" diameter)		FALSE
46	C	18534		Arrangement and detail of cylinder cock gear	9 Jun 1911		6'0" Prince of Wales class		FALSE
46	C	18533		General arrangement of smokebox	24 May 1911		4'3" 8 coupled side tank shunting engine, cylinders 20 1/2" diameter, 24" stroke		FALSE
46	C	18532		Arrangement and details of feed water gear	26 May 1911		4'3" 8 coupled side tank shunting engine		FALSE
46	C	18530		Details of lagging and filling up plates for cylinders	16 Apr 1915		6'0" Prince of Wales class		FALSE
46	C	18527		Diagram of regulator rod under coaches	1 Jun 1911		Train for Holywell line		FALSE
46	C	18524		Arrangement and details of trailing sand gear	24 May 1911		4'3" 8 coupled side tank shunting engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
46	C	18522		Details of piston rod and slide bars	24 May 1911	26 Feb 1941	6'0" Prince of Wales class		FALSE
46	C	18521		Miscellaneous castings	11 May 1911		4'3" 8 coupled side tank shunting engine		FALSE
46	C	18520		Arrangement and details for fixing cable terminals for electric bell	27 Jan 1927		4'6" 8 wheels coupled side tank engine		FALSE
46	C	18515		Details of brake gear	22 Jan 1930	1 Nov 1943	4'3" 8 coupled side tank shunting engine		FALSE
46	C	18514		General arrangement of brake gear	6 May 1911		4'3" 8 coupled side tank shunting engine		FALSE
46	C	18504		Arrangement and details of reversing gear	16 May 1911		4'3" 8 coupled side tank shunting engine		FALSE
46	C	18503		Experimental arrangement for "Fournier's" distance Pyrometer	24 Mar 1911		6'6" 4 coupled George V class		FALSE
46	C	18501		Detail of side tanks	13 May 1911		4'3" 8 coupled side tank shunting engine		FALSE
47	C	18591	PC	Diagram shewing position of steam pipe to blower in smokebox	29 Nov 1920		Prince of Wales class		FALSE
47	C	18591		General arrangement of smokebox	27 Apr 1920		6'0" Prince of Wales class		FALSE
47	C	18590		Details of regulator gear at leading end	16 Feb 1912		4'6" 4 coupled side tank engine for motor trains		FALSE
47	C	18589		Arrangement of regulator gear at leading end	29 Jun 1911		4'6" 4 coupled side tank engine for motor trains		FALSE
47	C	18588		General arrangement and detail of cylinder cock gear	30 Jun 1911	19 Aug 1914	4'3" 8 coupled side tank shunting engine		FALSE
47	C	18587		General arrangement of auto vacuum brake pipes (end views)	28 Jun 1911		4'3" 8 coupled side tank shunting engine		FALSE
47	C	18586		General arrangement of auto vacuum brake gear (elevation and plan)	28 Jun 1911	29 Jan 1945	4'3" 8 coupled side tank shunting engine		FALSE
47	C	18585		General arrangement of injectors	27 Jun 1911		4'3" 8 coupled side tank shunting engine		FALSE
47	C	18584		Diagram of regulator rodding under engine and coaches (elevation)	none		Motor trains for Willesden and Earls Court		FALSE
47	C	18584		Diagram of regulator rodding under engine and coaches (plan)	29 Jun 1911		Motor trains for Willesden and Earls Court		FALSE
47	C	18582		Arrangement and detail of drain cup and pipe from snifting valves and packing plates for smokebox	26 Jun 1911		6'0" Prince of Wales class		FALSE
47	C	18579		Detail of spring (plates straight when loaded)	23 Nov 1938	23 Feb 1943	3000 gallon tender		FALSE
47	C	18579		Detail of spring (plates straight when loaded)	9 Sep 1918	11 Mar 1943	3000 gallon tender		FALSE
47	C	18575		Details of hand rails and vacuum pipes	15 Jun 1911		6'0" Prince of Wales class		FALSE
47	C	18574		Details of steam pipes in smokebox	14 Jun 1911		6'0" Prince of Wales class		FALSE
47	C	18570		Details of handrails and vacuum pipes	15 Jun 1911		4'3" 8 coupled side tank shunting engine		FALSE
47	C	18569		Arrangement of steam brake exhaust pipes	15 Jun 1911		4'3" 8 coupled side tank shunting engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
47	C	18568	Rider	Diagram shewing etc. for which rodding is required	none		Motor trains	2 branches only: Longridge, and Oldham and Delph; spare carriages	FALSE
47	C	18568		Diagram shewing etc. for which rodding is required	26 Jun 1911		Motor trains	22 branches listed	FALSE
47	C	18567		Details of steam pipes	17 Jun 1911		6'0" Prince of Wales class fitted with superheater		FALSE
47	C	18559		General arrangement and details of damper gear	15 Jun 1911	10 Oct 1917	4'3" 8 coupled side tank shunting engine		FALSE
47	C	18557		Details of lagging for boiler	29 May 1911		4'3" 8 coupled side tank shunting engine		FALSE
47	C	18556		Arrangement of lubricators and oil pipes	9 Jun 1911	12 Oct 1917	4'3" 8 coupled side tank shunting engine		FALSE
48	C	18637		Diagram showing principal dimensions of standard cabs	17 Aug 1911		"Claughton" class, 4'3" 8 w.c. with 5'2" boiler coal engine & side tank engine & 5'6" 6 w.c. tank	Sheet 3	FALSE
48	C	18636		Header casting for superheater	14 Dec 1912	26 Sep 1924	5'6" 6 w.c. side tank engine		FALSE
48	C	18623		Blast pipe	3 Aug 1911		4'3" 8 w.c coal engine cyl. 20.5" with superheater		FALSE
48	C	18622		Details of steam pipes & flanges in smokebox	3 Aug 1911		4'3" 8 w.c coal engine cyl. 20.5" with superheater		FALSE
48	C	18621		Diagram of steam pipes	3 Aug 1911		4'3" 8 w.c coal engine cyl. 20.5" with superheater with flat valves		FALSE
48	C	18618		Detail of new steam jet pipe in smokebox	No date		6'6" "Queen Mary" class		FALSE
48	C	18613		Arrangement & detail of reversing rod & guide bracket	23 Mar 1916		5'0" 6 w.c. goods engine cyls. 19" x 26"		FALSE
48	C	18611		Arrangement & details of fire hole door	20 Jul 1911		Steam motor carriage cyls. 9.5" dia. x 15" stroke		FALSE
48	C	18609		Details of air relief pipes on bunker	20 Jul 1911	26 Sep 1922	5'6" 6 w.c. side tank		FALSE
48	C	18602		Locomotive weighing spanner for 1 1/8" nuts	25 Jul 1911				FALSE
48	C	18601		New method of lubrication for connecting & coupling rods	22 Jul 1911		6'6" 4 w.c. "George the Fifth" class		FALSE
48	C	18649		Forgings for steam & hand brake gear	7 Sep 1911		Standard tenders		FALSE
48	C	18648		Castings for steam & hand brake gear	7 Sep 1911		Standard tenders		FALSE
48	C	18647		Whistle gear for engines fitted with regulator gear at leading & trailing ends	21 Jan 1927		Motor trains (western 'A' division)		FALSE
48	C	18645		Details of hand rails & vacuum pipes	14 Sep 1911	18 Jun 1918	4'3" 8 w.c. coal engine superheated 20.5"x 24" cyls. Wwth piston valves		FALSE
48	C	18643		Arrangement for lubricating sliding faces on radial trucks for locomotives	10 May 1912		Various classes		FALSE
48	C	18642		Arrangement of regulator gear at trailing end for engines fitted with leading end regulator gear	18 Mar 1925		4'6" 4 w.c. side tank engine for motor trains		FALSE
48	C	18640		Details of regulator gear at trailing end for engines fitted with leading end regulator gear	18 Mar 1925		4'6" 4 w.c. side tank engine for motor trains		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
49	C	18689		General arrangement & details of cylinder cock gear	23 Oct 1911		4'3" 8 w.c. coal engine superheated 20.5" x 24" cyls. with piston valves		FALSE
49	C	18688		Diagram showing arrangement of tubes in locomotive tube plates	2 Oct 1911		5 classes of locomotives		FALSE
49	C	18686		Arrangement & detail of drain cup & pipe from snifting valves	27 Oct 1911		4'3" 8 w.c. coal engine superheated 20.5" x 24" cyls. With piston valves		FALSE
49	C	18685		Detail of lagging plate for cyls.	4 Jul 1915		4'3" 8 w.c. coal engine superheated 20.5" x 24" cyls. With piston valves		FALSE
49	C	18684		General arrangement: end views & sections	14 Sep 1911		4'3" 8 w.c. side tank shunting engine		FALSE
49	C	18680		General arrangement of smokebox fitted with "Phoenix" superheater	23 Oct 1911		5'0" 6 w. c. goods engine cyls, 19" x 26"		FALSE
49	C	18679		Details of smokebox plates & covering plates at front end when fitted with "Phoenix" superheater	23 Oct 1911		5'0" 6 w. c. goods engine cyls, 19" x 26"		FALSE
49	C	18678		Details of brasses with white metal lining for locomotive connecting rods	19 Oct 1911	8 Jan 1914	Many classes of locomotives		FALSE
49	C	18677		Details of steam pipes	31 Oct 1911		4'3" 8 w.c. coal engine superheated 20.5" x 24" cyls. with piston valves		FALSE
49	C	18676		Details of steam pipes & flanges	31 Oct 1911		4'3" 8 w.c. coal engine superheated 20.5" x 24" cyls. with piston valves		FALSE
49	C	18675		Arrangement & details of gear for working "Trusty" mechanical lubricator	21 Oct 1911		4'3" 8 w.c. coal engine superheated 20.5" x 24" cyls. with piston valves		FALSE
49	C	18674		Diagram sheet of axleboxes	6 Oct 1911	6 Dec 1944	10 classes of locomotive	Sheet No. 2	FALSE
49	C	18673		Leading & driving axle box	6 Oct 1911	29 Nov 1944	5'0" 6 w.c. 18" cyl. goods engine	Also leading axle box for 5'0" 6 w.c. side tank engine	FALSE
49	C	18672		Trailing axle box (7" Dia. Journal)	No date		4'32 8 w.c. coal superheated G1 & 4'3" 8 w.c. side tank shunting engine	This drg. replaces drg. of the same number	FALSE
49	C	18672		Detail of trailing axlebox	14 Mar 1929	1 Oct 1942	4'3" 8 w.c. coal engine		FALSE
49	C	18671		Detail of intermediate axlebox	14 Mar 1929	26 Feb 1947	4'3" 8 w.c. coal engine		FALSE
49	C	18670		Detail of leading axlebox	14 Mar 1929	26 Feb 1947	4'3" 8 w.c. coal engine		FALSE
49	C	18669		General arrangement of smokebox	10 Oct 1911	18 Jun 1918	4'3" 8 w.c. coal engine converted to superheater		FALSE
49	C	18668		Details of piston rod & slide bars	10 Oct 1911	19 Dec 1946	4'3" 8 w.c. coal engine converted to superheater 20.5" x 24" cyls. with piston valves		FALSE
49	C	18660		Detail of cylinders	4 Oct 1911		4'3" 8 w.c. coal engine converted to superheater 20.5" x 24" cyls. with piston valves		FALSE
49	C	18658		Detail of footplate	2 Oct 1911	19 Aug 1940	4'3" 8 w.c. coal engine converted to superheater 20.5" x 24" cyls. with piston valves		FALSE
49	C	18657		Details of forged stays for boiler	9 Apr 1931		"Claughton" class		FALSE
49	C	18656		General arrangement & details for filling hole lid clamp	25 Sep 1911		5'6" 6 w.c. side tank engine		FALSE
49	C	18655		Details of castings	11 Sep 1911		5'0" 6 w.c. goods engine cyls. 19" x 26" fitted with "Phoenix" superheater	Sheet 2	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
49	C	18654		Details of castings	11 Sep 1911		5'0" 6 w.c. goods engine cyls. 19" x 26" fitted with "Phoenix" superheater	Sheet 1	FALSE
49	C	18653		Detail of smoke box and superheater damper plates	16 Sep 1911	18 Jun 1918	4'3" 8 w. c. coal engine superheater 20.5"x 24" cyls. with slide valves		FALSE
49	C	18652		Detail of piston & cylinder covers	16 Sep 1911	11 Jul 1950	4'3" 8 w. c. coal engine superheater 20.5"x 24" cyls. with piston valves		FALSE
49	C	18651		Arrangement & details of superheater damper gear	18 Sep 1911	18 Jun 1918	4'3" 8 w. c. coal engine superheater 20.5"x 24" cyls.		FALSE
50	C	18756		Boiler	25 Jun 1919	5 Sep 1936	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	See drawing 20331	FALSE
50	C	18754		Detail of piston valves and liners	25 Jun 1918	17 May 1922	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	see also drawing, same number, dated 17 May 1922	FALSE
50	C	18754		Detail of piston valves and liners	17 May 1922		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	see also drawing, same number, dated 25 Jun 1918	FALSE
50	C	18753		Detail of cylinders 15 3/4" x 26" stroke	10 Jan 1912		6'6" 6 coupled passenger engine (4 cylinders)		FALSE
50	C	18750		Detail of ejector automatic vacuum brake	14 Oct 1915	1 Nov 1921	29 classes of locomotive		FALSE
50	C	18742		Detail of castings for radial truck	20 Dec 1911		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	Also for 4'3" 8 wheel coupled side tank engine (superheated) 0-8-4 type	FALSE
50	C	18735		Detail of balance weight on reversing shaft	18 Dec 1911		4'3" 8 wheel coupled side tank shunting engine		FALSE
50	C	18732		Details of castings	1 Dec 1912	17 Apr 1912	4'6" 8 wheeled side tank engine fitted with automatic vacuum brake		FALSE
50	C	18728		Arrangement of auto vacuum brake sack etc. for engines working motor trains	1 Dec 1912	17 Apr 1912	4'6" 8 wheeled side tank engine		FALSE
50	C	18722		Brackets for large and small signalling staffs	5 Aug 1920		Standard fitting for 11 classes of locomotive		FALSE
50	C	18721		Detail of additional lagging on side tanks	23 Nov 1911		5'6" 6 coupled side tank engine		FALSE
50	C	18718		Standard mud pocket and cover for boiler	9 Mar 1925		Standard fitting		FALSE
50	C	18717		Details of Davies and Metcalfe No. 10 hot water injector	18 Nov 1911		Standard fitting		FALSE
50	C	18711		Details of reversing shaft and lever	11 Dec 1911		4'3" 8 wheel coupled coal engine (superheated) 20 1/2" x 24" cylinders with piston valves		FALSE
50	C	18708		Details of rocking shaft and valve rods	18 Dec 1911		4'3" 8 wheel coupled coal engine (superheated) 20 1/2" x 24" cylinders with piston valves		FALSE
50	C	18707		Arrangement of pyrometer, lubricators and pipes	18 Nov 1911		4'3" 8 wheel coupled coal engine (superheated) 20 1/2" x 24" cylinders with piston valves		FALSE
50	C	18703		Detail of smokebox and superheater damper plates	7 Nov 1911		4'3" 8 wheel coupled coal engine (superheated) 20 1/2" x 24" cylinders with piston valves		FALSE
50	C	18799		General arrangement of radial truck	16 Nov 1922	1 Feb 1957	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	Also for 4'3" 8 wheel coupled side tank 0-8-4 type	FALSE
50	C	18785		Diagram showing various lengths of jib and heights for lifting	5 Nov 1904		10-ton travelling breakdown crane		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
50	C	18755		Metallic packing for piston rods	12 Jan 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
50	C	18784		Details of castings	12 Feb 1912		Standard 3000 gallon tender (old pattern without sloping bunker) fitted with vacuum sack & reservoir		FALSE
50	C	18733		Details of forgings and plate work	12 Feb 1912		Standard 3000 gallon tender (old pattern without sloping bunker) fitted with vacuum sack & reservoir		FALSE
50	C	18782		Arrangement of vacuum brake gear	12 Feb 1912		Standard 3000 gallon tender (old pattern without sloping bunker) fitted with vacuum sack & reservoir	Arrangement of brake same as for tender with sloping bunkers built before Feb 1912	FALSE
50	C	18781		Diagram of boiler smoke tubes (with copper ends) for superheated engines	21 Jan 1924		8 classes of passenger and goods engine (incl. P of W, George V, Claughton, Alfred the G)		FALSE
50	C	18766		Details of 7mm and 5mm injectors (Gresham and Craven)	26 Jan 1912		Rail motors		FALSE
50	C	18763		Steam chest covers, snifting valve and blank flanges	25 Jan 1912	31 Dec 1914	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	Snifting valve cancelled, see later drawings for particulars	FALSE
50	C	18762		Details of steam collector in smokebox	20 Jan 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
50	C	18761		Details of crosshead and gudgeon pin	18 Dec 1920		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
50	C	18759		Arrangement of vacuum brake gear	10 Jan 1912	19 Dec 1912	Standard 3000 gallon tender with sloping bunker		FALSE
51	C	18805		Graduated wrought iron protection tube for gauge glass	29 Feb 1912		3000 gallon tender water bottom tank and sloping bunker		FALSE
51	C	18849		Details of castings for vacuum brake	14 Apr 1912		George V engines fitted with Belpaire boilers	Details of alterations required to bracket for vacuum brake lever. Also see rider.	FALSE
51	C	18849	Rider	Brakebox and hangers used after 9 Oct 1918	9 Oct 1918		George V engines fitted with Belpaire boilers	Attached to main 18849 drawing	FALSE
51	C	18802		Details of relief valve for cylinders	9 May 1913	26 Sep 1918	6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
51	C	18939		Arrangement and details of reversing gear	9 Aug 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
51	C	18848		Arrangement of vacuum brake at footplate end	14 Apr 1912		6'6" George V class	Also to be used for engines fitted with Belpaire boilers	FALSE
51	C	18847		General arrangement of auto vacuum brake	14 Apr 1912		6'6" George V class		FALSE
51	C	18937		Spring for intermediate wheels	21 Aug 1912	20 Nov 1943	4'3" 8 wheel coupled coal engine		FALSE
51	C	18838	PC	Arrangement and details of spring gear for coupled wheels	11 Oct 1920		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
51	C	18831		Details of spring for trailing wheels	5 Jun 1914	14 Dec 1915	6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
51	C	18827		Mechanical lubricator - wrought details	20 Mar 1912		Standard fitting		FALSE
51	C	18826		Mechanical lubricator - cast details	20 Mar 1912		Standard fitting		FALSE
51	C	18825		Mechanical lubricator - general arrangement	20 Mar 1912		Standard fitting		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
51	C	18819		Details of safety valve seating	9 Dec 1913		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	This tracing used after the first 10 engines, see 1197	FALSE
51	C	18819		Details of safety valve seating	13 Mar 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	This tracing used for the first 10 engines, see 1196	FALSE
51	C	18818		Details of coupling rods	none		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
51	C	18817		Details of steam collector in smokebox	2 Mar 1912	20 Nov 1945	6'6" George V class	Also used for P of Wales, 4'3" 8 coupled coal engines superheated and converted to superheater	FALSE
51	C	18807		Details of driving wheels	8 Mar 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
51	C	18804		Details of axles and crank pins	26 Feb 1912	4 Feb 1957	6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
51	C	18806		Standard head lamp	29 Feb 1912	9 May 1913	Standard fitting	Different burner and well after 1913	FALSE
52	C	18865		Details of steam pipe	10 May 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
52	C	18863		Arrangement and details of plate coal guard	28 May 1920		Standard 3000 gallon tender with sloping bunker		FALSE
52	C	18861		Diagram sheet - internal chimneys for locomotives	20 Apr 1912	31 Oct 1918	Many classes of locomotive		FALSE
52	C	18859		Connecting rod for inside cylinders	4 May 1912	15 Apr 1914	6'6" 6 coupled passenger engine (4 cylinders)		FALSE
52	C	18858		Connecting rod for outside cylinders	1 Dec 1919	21 Oct 1934	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	Correct for first ten engines only	FALSE
52	C	18857		Detail of casing for cylinder covers	29 Apr 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
52	C	18855		Detail of smoke-box and superheater damper plates	9 Apr 1912	12 Dec 1918	6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
52	C	18854		Standard shackles for crane chains and wire rope thimbles	24 Apr 1912		Standard crane fitting		FALSE
52	C	18853		Connecting rod for inside cylinders	1 Dec 1919	21 Oct 1934	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	Correct for first ten engines only	FALSE
52	C	18852		Detail of slide bars, expansion link bracket and valve spindle guide	25 Apr 1930	27 Feb 1941	6'6" 6 coupled passenger engine (4 cylinders)		FALSE
52	C	18888		Tyre fastening for driving and trailing wheels	8 Jun 1912		6'6" 4 coupled passenger engines (Joy's gear), Precursor and George V classes		FALSE
52	C	18850		Details of forgings etc. for vacuum brakes	14 Apr 1912		6'6" George V class		FALSE
52	C	18894		Details of forgings etc. for vacuum brake	8 Jun 1912		6'0" Experiment class		FALSE
52	C	18893		Details of castings for vacuum brake	22 Mar 1920		6'0" Prince of Wales class		FALSE
52	C	18891		Arrangement of pipe to pump for engines fitted with vacuum sack	8 Jun 1912		6'0" 6 wheel coupled Experiment class		FALSE
52	C	18889		Details of castings for framework	11 Jun 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
52	C	18887		Details of driving and trailing wheels	3 Jun 1912		6'6" 4 wheel coupled passenger engine (straight link)		FALSE
52	C	18881		Details of boiler mountings	25 May 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
52	C	18876		Details of steam pipes and flanges in smoke box	22 May 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
52	C	18875		Details of quadrant, shaft and eccentric for regulator valve	22 May 1912	20 Feb 1918	6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
52	C	18874		Lever for regulator	17 Oct 1916	26 Mar 1928	6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
52	C	18871		Detail of valve rocking lever and bracket	22 May 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
52	C	18870		Diagram shewing water capacity of tanks	22 May 1912		5'6" 6 coupled side tank engine		FALSE
52	C	18867		Details of regulator and stand pipe	13 Mar 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class		FALSE
52	C	18860		Connecting rod for outside cylinders	4 May 1912	15 Apr 1914	6'6" 6 coupled passenger engine (4 cylinders)	Altered after first ten engines	FALSE
53	C	18903		Detail of big end for "Coopers" patent roller bearing	26 Jun 1912		"Experiment" class 6'0" six wheel coupled pass. Engine		FALSE
53	C	18901		Arrangement & details of oil pipes, check & test valves for LNW mechanical lubricator	15 Jun 1912	3 Apr 1919	"George the Fifth" class 6'6" four wheel coupled pass. Engine		FALSE
53	C	18909		Detail of expansion link & valve rod	15 Sep 1919		"Claughton" class 6'6" six wheel coupled pass. Engine		FALSE
53	C	18941		Details of steam boxes & fittings on whistle stand	4 Jan 1923		"Claughton" class 6'62 six wheel coupled pass. Engine		FALSE
53	C	18936		Details of spring gear for intermediate wheels	20 Aug 1912	4 Nov 1943	4' 3" 8 wheel coupled coal engines	Also 4' 3" side tank shunting engines	FALSE
53	C	18935		Detail of combining lever, crosshead lever & union link	9 Aug 1912		"Claughton" class 6'6" six wheel coupled pass. Engine		FALSE
53	C	18934		Detail of bushes for motion	21 Aug 1912		"Claughton" class 6'6" six wheel coupled pass. Engine		FALSE
53	C	18933		Details of cab window frames	2 Aug 1912	31 Mar 1913	"Claughton" class 6'6" six wheel coupled pass. Engine		FALSE
53	C	18933		Details of reversing shaft & lifting links	9 Aug 1912		6'6" six wheel coupled pass.engine "Claughton" class	Details also for "Prince of Wales" class with Walschaerts valve motion	FALSE
53	C	18922		Details of blower & steam jet valve	7 Oct 1931		6'6" six wheel coupled pass.engine "Claughton" class		FALSE
53	C	18915		Details of footplate corner brackets & footsteps	27 Jun 1912	11 Oct 1916	6'6" six wheel coupled pass.engine "Claughton" class		FALSE
53	C	18914		Detail of return crank, return crank rod & valve spindle crosshead	22 Jul 1912		6'6" six wheel coupled pass.engine "Claughton" class	Details also for "Prince of Wales" class with Walschaerts valve motion	FALSE
53	C	18912		Details of trip gear for automatic vacuum brake	3 Jul 1912		4'6" four wheel coupled side tank pass. Engines		FALSE
53	C	18911		Arrangement of trip gear for automatic vacuum brake	3 Jul 1912		4'6" four wheel coupled side tank pass. Engines	For details see Drg 18912	FALSE
54	C	18998		Locking clip for reversing rod pins	17 Oct 1912		6'6" four wheel coupled "Precursor" class		FALSE
54	C	18972		General arrangement & details of damper gear	3 Oct 1912	28 Oct 1913	6'6" six wheel coupled pass. engine "Claughton" class		FALSE
54	C	18971		Revised arrangement of carrying firebars	18 Nov 1918	17 Aug 1934	6'6" six wheel coupled pass. engine "Claughton" class	Rider to drg. 18971	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
54	C	18971		General arrangement of ashpan & firebars	5 Jun 1914		6'6" six wheel coupled pass. engine "Claughton" class		FALSE
54	C	18970		Details of forgings for injector gear	20 Sep 1912	8 Jan 1914	6'6" six wheel coupled pass. engine "Claughton" class		FALSE
54	C	18969		General arrangement & details of injector gear	13 Sep 1912		6'6" six wheel coupled pass. engine "Claughton" class		FALSE
54	C	18968		Arrangement of carriage heating apparatus	20 Sep 1912		6'6" six wheel coupled pass. engine "Claughton" class		FALSE
54	C	18967		General arrangement of auto vacuum brake - end views	20 Sep 1912		6'6" six wheel coupled pass. engine "Claughton" class		FALSE
54	C	18965		Details of driving and trailing sandboxes	23 Sep 1912		6'6" "George the Fifth" class		FALSE
54	C	18956		Forgings for cab & panel plates	24 Sep 1912	23 Dec 1919	6'6" six wheel coupled passenger engine "Claughton" class		FALSE
54	C	18951		Splashers & lagging for outside cylinders	4 Sep 1912		6'6" six wheel coupled passenger engine "Claughton" class		FALSE
54	C	18991		Details of air valves for automatic vacuum brake	14 Oct 1912		6'6" six wheel coupled passenger engine "Claughton" class		FALSE
54	C	18990		10 ton wagon wheel - steel casting	14 Oct 1912				FALSE
54	C	18986		Water gauge for boiler	10 Oct 1912		6'6" six wheel coupled passenger engine "Claughton" class		FALSE
54	C	18977		Steam valves for vacuum brake ejector	8 Oct 1912		6'6" six wheel coupled passenger engine "Claughton" class		FALSE
54	C	18983		Stationary boiler with corrugated furnace-arrangement of furnace doors	12 Oct 1911			Leeds Joint Goods	FALSE
54	C	18976		Arrangement & details of sand gear	7 Oct 1912		6'6" "George the Fifth" class		FALSE
54	C	18975		Details of driving splashers for engines with sandboxes on top of footplate	4 Oct 1912		6'6" "George the Fifth" class		FALSE
55	C	19041		Detail of nameplate	28 Nov 1912		6'6" six wheel coupled passenger engine "Claughton" class		FALSE
55	c	19024		Details of holes in flanges of "Davies & Metcalfe" exhaust steam injector	18 Nov 1912		6'6" six wheel coupled passenger engine "Claughton" class		FALSE
55	C	19023		Details of oil connections etc:	14 Nov 1912		6'6" six wheel coupled passenger engine "Claughton" class		FALSE
55	C	19022		Arrangement of lubricators & pipes	6 Nov 1912		5'6" six wheel coupled side tank engine with superheater		FALSE
55	C	19016		Details of castings for sand gear	8 Oct 1912	20 Nov 1919	6'6" six wheel coupled passenger engine		FALSE
55	C	19012		Details of coupling rods for superheated and non-superheated engines	26 Oct 1912	28 May 1943	4'3" eight coupled coal engine 20.5" cylinders		FALSE
55	C	19011		General arrangement of smokebox	4 Nov 1912	28 Nov 1918	6'6" "Precursor" class (converted to superheater). Existing cylinders with flat valves		FALSE
55	C	19009		Details of handrails & vacuum exhaust pipes	4 Nov 1912	28 Nov 1918	6'6" "Precursor" class (converted to superheater). Existing cylinders with flat valves		FALSE
55	C	19007		A.R.L.E. Tyre Section. Standard gauge between tyres for locomotives and tenders	18 Feb 1929	27 Jan 1939	Standard drawing		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
55	C	19006		Details of 3.5" pipes for exhaust steam injector	30 Oct 1912		6'6" six coupled passenger engine "Claughton" class		FALSE
55	C	19005		Details of crank pins	7 Apr 1915		4'3" eight coupled coal engines 20.5" cyl. Superheated & non-superheated		FALSE
55	C	19003		Details of steam pipes	25 Oct 1912		6'6" "Precursor" class converted to superheater. Existing cyls. with flat valves		FALSE
55	C	19048		Arrangement of gear for working "Wakefields" mechanical lubricator	12 Dec 1912		4'3" eight coupled superheated coal engine 20.5"x24" cylinders with piston valves		FALSE
55	C	19042		Hornblock & axlebox for radial truck	27 Apr 1920	1 Feb 1957	6'6" six coupled passenger engine "Claughton" class	10 other classes of locomotive including 5'0" goods cyls. 19"x26"	FALSE
55	C	19040		Details of handrails & vacuum pipes	23 Nov 1912	12 Dec 1918	6'6" six coupled passenger engine "Claughton" class		FALSE
55	C	19038		Details of piston valves & liners (valves 1/16" lap)	14 Apr 1913	1 Feb 1918	4'3" eight coupled superheated coal engine 20.5" cyls.		FALSE
55	c	19036		General arrangement of sand gear	23 Nov 1912		6'6" six coupled passenger engine "Claughton" class		FALSE
55	C	19035		Arrangement of lubricator pipes for engines having "Wakefield" mechanical lubricators	29 Dec 1912	30 Aug 1934	6'6" six coupled passenger engine "Claughton" class		FALSE
55	C	19034		Arrangement & details for working "Wakefields" mechanical lubricator	16 May 1918		6'6" six coupled passenger engine "Claughton" class		FALSE
55	C	19033		Castings for footplate doors & water gauge for tender	31 Dec 1912		6'6" six coupled passenger engine "Claughton" class		FALSE
55	C	19032		Castings for handrails & vacuum pipes	23 Nov 1912		6'6" six coupled passenger engine "Claughton" class		FALSE
55	C	19031		Diagram of holes required in cab sides	25 Dec 1912		6'6" six coupled passenger engine "Claughton" class		FALSE
55	C	19030		Details of cylinder cock gear (cocks & brackets)	17 Aug 1917		6'6" six coupled passenger engine "Claughton" class		FALSE
55	C	19029		Arrangement & details of cylinder cock gear	18 Nov 1912	18 Aug 1917	6'6" six coupled passenger engine "Claughton" class		FALSE
55	C	19028		Details of castings for exhaust steam injector	14 Nov 1912		6'6" six coupled passenger engine "Claughton" class		FALSE
55	C	19026		Detail of wood block for gauges	14 Nov 1912		6'6" six coupled passenger engine "Claughton" class		FALSE
55	C	19025		Holes in flanges of Davies & Metcalfe exhaust steam injector grease separator	14 Nov 1912		6'6" six coupled passenger engine "Claughton" class		FALSE
56	C	19187		General arrangement & details of sand pipes & stays for driving wheels	14 Mar 1923		5'6" six coupled side tank engine	2 copies	FALSE
56	C	19187		General arrangement & details of sand pipes & stays for driving wheels	5 Jun 1913		5'6" six coupled side tank engine		FALSE
56	C	19199		Diagram of vacuum brake pipes for locomotives	6 Nov 1912		Standard drawing	Sheet 2	FALSE
56	C	19198		Diagram of vacuum brake pipes for locomotives	6 Nov 1912		Standard drawing	Sheet 1	FALSE
56	C	19186		General arrangement & details of sand gear for driving wheels	5 Jun 1913	9 Jun 1923	6'0" four coupled side tank engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
56	C	19167		Water gauge for locomotives with boilers 4'4" or less in diameter	15 May 1913		15 classes of locomotives		FALSE
56	C	19166		Arrangement of steam pipes for whistle stand & blower	21 Jun 1920		7 Classes of locomotive		FALSE
56	C	19156		Detail showing arrangement for coupling tender to engine when standard pin is used	8 May 1913		3000 gall. tender with water bottom tank & sloping bunker (for tanks with small plates only)		FALSE
56	C	19147		Details of reversing shaft brake gear	12 Apr 1913		6'6" four coupled passenger engines with Joys valve motion	Drawing with A suffix	FALSE
56	C	19147		General arrangement of reversing shaft gear	12 Apr 1913		6'6" four coupled passenger engines with Joys valve motion		FALSE
56	C	19138		General arrangement of sand gear with standard valve cones for trailing wheels	7 Apr 1913	14 Feb 1946	4'3" eight coupled coal engines fitted with large boilers		FALSE
56	C	19137		General arrangement of sand gear with standard valve cones for trailing wheels	9 Apr 1913		4'3" eight coupled coal engines fitted with small boilers		FALSE
56	C	19132		Details of sandboxes for trailing wheels	22 Feb 1918	19 Feb 1946	4'3" eight coupled superheated coal engine with gudgeon pins 3.5" dia. Class G2	Rider print	FALSE
56	C	19132	C	Details of sand gear for trailing wheels	9 Apr 1913	19 Feb 1946	4'3" eight coupled coal engines		FALSE
56	C	19129		Arrangement of special iron stays in steel firebox	No date		4'3" eight coupled coal engines		FALSE
56	C	19121		Arrangement of steam pipes for whistle stand & blower	7 Mar 1913		6'6" six coupled passenger engine "Claughton" class		FALSE
56	C	19094		Cover for valve rod lifting links		23 Jan 1922	6'6" six coupled passenger engine "Claughton" class		FALSE
56	C	19080		Crosshead for inside valve spindle	18 Jan 1913		6'6" six coupled passenger engine "Claughton" class		FALSE
56	C	19078		Arrangement of footplate doors & water gauge on tender	13 Jan 1913		6'6" six coupled passenger engine "Claughton" class		FALSE
56	C	19079		Details of metallic packing	10 Jan 1913		Engine No. 3020 "Cornwall"		FALSE
56	C	19075		Details of splicing & stiffening plates between frames at leading end for engines with broken & cracked frames	10 Jan 1913		7'0" four coupled passenger engine "Renown" class		FALSE
56	C	19057		Details of alterations to 3000 gallon tenders with sloping bunker	20 Dec 1912		6'6" six wheel coupled passenger engine "Claughton" class		FALSE
56	C	19056		Index plate & casing for reversing screw	14 Apr 1913		6'6" six wheel coupled passenger engine "Claughton" class		FALSE
56	C	19055		Details of footboards & wood blocks	13 Dec 1912		6'6" six wheel coupled passenger engine "Claughton" class		FALSE
56	C	19054		General arrangement of car heating & vacuum pipes at leading & trailing ends	17 Dec 1912		4'6" four coupled side tank engine for motor trains		FALSE
56	C	19052		General arrangement of exhaust steam injector & details of forgings & pipes for same	12 Dec 1912		6'6" six coupled passenger engine "Claughton" class		FALSE
56	C	19051		Details of axlebox for 11"x 5.5" journals. 3000 gallon tender	9 Dec 1912	17 Jun 1935	6'6" six coupled passenger engine "Claughton" class		FALSE
57	C	19296		General arrangement and details of intermediate damper gear	23 Oct 1913		6'6" six coupled passenger engine (4 cylinders) "Claughton" class		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
57	C	19295		Arrangement of brake gear with cast iron brake blocks	13 Jan 1917	23 May 1934	4'3" six coupled side tank coal engine	Detail for locos at Abergavenny shed	FALSE
57	C	19295		General arrangement and details of brake gear with cast iron brake blocks	20 Oct 1913	23 May 1934	4'3" six coupled side tank coal engine		FALSE
57	C	19285		Arrangement of starting gear etc. (for model locomotive)	14 Oct 1913		Model of 6'6" six coupled passenger engine "Claughton" class	Coin operated model	FALSE
57	C	19284		Details of starting gear etc. (for model locomotive)	11 Oct 1913		Model of 6'6" six coupled passenger engine "Claughton" class	Coin operated model	FALSE
57	C	19275		General arrangement and details of gear for driving Wakefield's mechanical lubricator	23 Sep 1913	21 Dec 1917	6'0" six coupled passenger engine "Prince of Wales" class	Fitted with a friction clutch	FALSE
57	C	19269		Classification of engines - scheme shewing proposed position of numbers for engines	22 Sep 1913		Many classes of engine		FALSE
57	C	19267		Arrangement and details of driving gear (for mode locomotive)	25 Sep 1913		Model of 6'6" six coupled passenger engine "Claughton" class	Coin operated model	FALSE
57	C	19245	PC	Spiral springs for locomotive engines	8 Sep 1889		General	Bearing spring	FALSE
57	C	19245	PC	Draw spring for tenders with ordinary buffers	18 May 1889		General		FALSE
57	C	19245		Spiral springs (shewn uncompressed)	28 Jul 1913		General		FALSE
57	C	19242		1913 L&NW mechanical lubricator - wrought details	28 Jul 1913		General		FALSE
57	C	19241		1913 L&NW mechanical lubricator - general arrangement	28 Jul 1913		General		FALSE
57	C	19226		Diagram shewing positions of reversing gear levers for engines having valves with 1 1/16" lap	31 Jul 1913		6'0" "Prince of Wales" class		FALSE
57	C	19215		Diagram of connecting rods for locomotives - sheet 2	2 Jul 1913		Not specified	List of engines to which this applies is on sheet 1 - not available	FALSE
57	C	19200		Diagram of carriage hearting apparatus - pipes for locomotives	6 Nov 1912		Standard		FALSE
57	C	19223		Spring gear for driving wheels	14 Nov 1923		1'4" four coupled tramway engine - outside cylinders - 18" gauge		FALSE
57	C	19206		Particulars of alterations required to valve motion and reversing gear to suit valves with 1 1/16" lap	24 Jun 1913		6'6" "George V" class		FALSE
57	C	19207		Diagram shewing positions of reversing gear levers for engines having valves with 1 1/16" lap	24 Jun 1913		6'6" "George V" class		FALSE
58	C	19364		Detail of water pickup scoop	30 Jan 1914		3000 gallon tenders		FALSE
58	C	19362		Lubricators for connecting rod big ends and coupling rods - detail of wire trimmings	none		6'0" six coupled passenger engine "Prince of Wales" class		FALSE
58	C	19358		Detail of cab and panel plates	1 Jan 1914	3 Oct 1945	4'3" 8 coupled coal engines (20 1/2" cyls.) superheated, fitted with automatic vacuum brake		FALSE
58	C	19355		Steam valves for vacuum brake ejector	15 Jan 1914		4'3" 8 coupled coal engines (superheated)		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
58	C	19354		Air valves for auto vacuum brake	24 Apr 1915	17 Nov 1943	4'3" 8 coupled coal engines (superheated) - classes G1, G2, 0-8-4 type & 5'0" 6 wheel coupled goods		FALSE
58	C	19352	Rider	Arrangement of brake gear	16 Jul 1923		4'3" 8 coupled coal engines - classes G1, G2		FALSE
58	C	19352		General arrangement of automatic vacuum brake	29 Dec 1913		4'3" 8 coupled coal engine (superheated) - class G1		FALSE
58	C	19350		Diagram shewing angle iron on top of cab to prevent water running off at sides	12 Dec 1913		Standard locomotive cabs		FALSE
58	C	19348		Stuffing box and packing for vacuum sack piston rod	15 Dec 1913		General		FALSE
58	C	19342		Brake sack and details of gear	9 Dec 1913	31 Oct 1935	4'3" 8 coupled coal engines (superheated) fitted with automatic vacuum brake		FALSE
58	C	19334		Standard fittings for locomotives	12 May 1920		Standard fittings		FALSE
58	C	19331		Details of air pump	3 Dec 1913	8 Aug 1924	4'3" 8 coupled coal engine (superheated) - class G1, also used for G2 from May 1919		FALSE
58	C	19312		Shield plate for intermediate axleboxes	6 Apr 1915		4'3" 8 coupled coal engines and 5'0" 6 wheel coupled goods, compound coal engine 4 cylinders		FALSE
58	C	19304		Details of regulator rodding	8 Mar 1925		5'0" six coupled side tank class (18" cylinders)		FALSE
58	C	19303		General arrangement of regulator rodding	8 Mar 1925		5'0" six coupled side tank class (18" cylinders)		FALSE
59	C	19562		Details of strengthened piston valves	15 Aug 1914		6'0" four coupled passenger engine "George V" class		FALSE
59	C	19564		Details of coupling rods	15 Aug 1914		6'0" 6 coupled 4 cylinder passenger engine "Experiment" class, fitted with special DM valve arrgt.		FALSE
59	C	19408		General arrangement and details of working Bosch lubricator	13 Mar 1914		6'6" four wheel coupled "Precursor" and "Queen Mary" converted to superheaters		FALSE
59	C	19597		Diagram of cast iron keeps for axle boxes	24 Sep 1914		13 classes of engine		FALSE
59	C	19589		Details of steam and exhaust pipes for crane	9 Sep 1914		4'3" six coupled side tank crane engine		FALSE
59	C	19588		Details of wire rope drum and jib head pulley for crane	9 Sep 1914		4'3" six coupled side tank crane engine		FALSE
59	C	19587		Details of miscellaneous forgings for crane	8 Sep 1914		4'3" six coupled side tank crane engine		FALSE
59	C	19586		Details of forgings for lifting gear of crane	8 Sep 1914		4'3" six coupled side tank crane engine		FALSE
59	C	19585		Details of tooth wheels for crane	8 Sep 1914		4'3" six coupled side tank crane engine		FALSE
59	C	19584		Details of crane pillar and castings for pillar bearings	8 Sep 1914		4'3" six coupled side tank crane engine		FALSE
59	C	19583		Details of bearing bracket castings for crane	8 Sep 1914		4'3" six coupled side tank crane engine		FALSE
59	C	19582		Details of casing plates and angle irons	8 Sep 1914		4'3" six coupled side tank crane engine		FALSE
59	C	19581		Details of plates for jib sides	8 Sep 1914		4'3" six coupled side tank crane engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
59	C	19550		Details of wheels	29 Jul 1914		4'3" eight coupled coal engine (20 1/2" cylinders)		FALSE
59	C	19548		Details of cylinder drain valves	13 Aug 1914		4'3" four cylinder compound coal engines, 6'0" "Experiment" class and 6'6" "Claughton" class		FALSE
59	C	19480		Holes in flanges of Davies and Metcalfe exhaust steam injector for grease separator for 4" pipes	17 May 1914		6'6" six coupled passenger engine (4 cylinders) "Claughton" class		FALSE
59	C	19477		Details of 4" and 3 1/2" pipes for exhaust steam injector	30 Oct 1914		6'6" six coupled passenger engine (4 cylinders)		FALSE
59	C	19445		Balanced slide valve with strips	14 Apr 1914		6'6" four coupled passenger engine with Joy's valve motion	"Precursor", "Experiment" and 5'0" 6 coupled goods engine	FALSE
59	C	19438		Connecting rod for outside cylinders	2 Apr 1914	1 May 1935	6'6" six coupled passenger engine (4 cylinders) "Claughton" class		FALSE
59	C	19437		Connecting rod for inside cylinders	2 Apr 1914	20 Nov 1934	6'6" six coupled passenger engine (4 cylinders) "Claughton" class		FALSE
59	C	19424		Details of brake gear for engines with vertical vacuum sack	18 Mar 1914		4'6" four coupled side tank passenger engine (8 wheeled)		FALSE
59	C	19423		General arrangement of brake gear for engines with vertical vacuum sack	21 Mar 1914		4'6" four coupled side tank passenger engine (8 wheeled)		FALSE
59	C	19421		Detail shewing alteration in method of lubricating trailing axlebox	21 Mar 1914	12 Jan 1928	6'6" six coupled passenger engine "Claughton" class		FALSE
59	C	19418		Alteration to lubricator pipes in smokebox	16 Apr 1915		6'6" "George V" class		FALSE
59	C	19410		Details of regulator rodding	22 Jan 1927		4'3" side tank coal engine (LMS Western "A" division)		FALSE
61	C	19747		Additional balance weights for existing wheels	19 Feb 1915		6'0" six wheel coupled passenger engines "Experiment" and "Prince of Wales" classes		FALSE
61	C	19731		Arrangement and details of tool box on footplate	18 Feb 1915		4'3" six wheel coupled saddle tank coal engine		FALSE
61	C	19723		Arrangement and details of "Gresham and Craven" exhaust steam injector	29 Jan 1915		6'6" six coupled passenger engine "Claughton" class		FALSE
61	C	19719		Locomotive boilers - diagram sheet of brass liners for holding-down plates	21 Jan 1915		Many classes of engine		FALSE
61	C	19715		Details of whistle stand for Belpaire boilers	18 Dec 1914	6 Feb 1925	5'6" six coupled side tank passenger engine		FALSE
61	C	19713		Arrangement of brake gear with cast iron brake blocks	5 Jan 1915	23 Jun 1918	4'3" four coupled shunting engine		FALSE
61	C	19711		Arrangement of oil box and pipe for lubricating trailing axle boxes	31 Dec 1914		4'3" special tank engine		FALSE
60	C	19695		Standard snifting valve for superheated engines	30 Mar 1922		Several classes of engine		FALSE
60	C	19694		General arrangement of crane	27 Nov 1914		4'3" six coupled side tank crane engine		FALSE
60	C	19693		Arrangement and details of driver's seat on crane	27 Nov 1914		4'3" six coupled side tank crane engine		FALSE
60	C	19689		Diagram showing rebalancing of wheels	9 Dec 1914		4'3" eight coupled coal engines (cylinders 18 1/2", 19 1/2" and 20 1/2")		FALSE
60	C	19689		Detail of balancing for driving wheels	9 Dec 1914		4'3" eight wheel coupled shunting engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
60	C	19681		Diagram and details of cylinder cock gear for small goods engines etc.	27 Nov 1914		Small goods engines		FALSE
60	C	19675		Diagram of cast iron keeps for axleboxes - sheet no. 2	8 Dec 1914		12 classes of engine		FALSE
60	C	19672		Standard water gauge - arrangement for automatically releasing top ball valve	27 Nov 1914		Standard fitting		FALSE
60	C	19659		Air vents for side tanks	5 Jun 1923		4'3" eight wheel coupled shunting engine		FALSE
60	C	19623		Diagram of vacuum brake pipes for locomotives - sheet 3	21 Oct 1914	1 Jan 1919	G1, G2 and 0-8-4 side tank and "Prince of Wales" classes		FALSE
60	C	19620		Details of cab	21 Oct 1914	28 Feb 1946	3000 gallon tender with sloping bunker		FALSE
60	C	19690		Arrangement and details of tanks under infantry van	none		Infantry van for armoured train		FALSE
60	C	19687		Details of partition in gun truck	none		Gun truck for armoured train		FALSE
60	C	19684		Details of drinking water tanks and reserve water tanks	11 Mar 1915		Coach on armoured train		FALSE
60	C	19679		Details of rifle racks and mess tables	19 Mar 1915		Infantry van (2nd armoured train)		FALSE
60	C	19677		Details of wood flooring	11 Mar 1915		Gun truck for armoured train		FALSE
60	C	19670		Vacuum brake and regulator gear pipes	11 Mar 1915		Gun truck for armoured train		FALSE
60	C	19668		Details of shields under frame, also miscellaneous details	none		Gun truck for armoured train		FALSE
60	C	19665		Details for bolting down of pedestal	none		Gun truck for armoured train		FALSE
60	C	19664		General arrangement of gun truck	13 Mar 1915		Gun truck for armoured train		FALSE
60	C	19663		Details of holes in special plates - sheet 2	none		Possibly gun truck - not clear - but for armoured train		FALSE
60	C	19662		Details of holes in special plates - sheet 1	none		Possibly gun truck - not clear - but for armoured train		FALSE
60	C	19661		Details of standard angle irons and tees	none		Possibly gun truck - not clear - but for armoured train		FALSE
60	C	19660		Details of special and standard angle irons and tees	none		Possibly gun truck - not clear - but for armoured train		FALSE
60	C	19658		Details of special plates - sheet 2	none		Possibly gun truck - not clear - but for armoured train		FALSE
60	C	19657		Details of special plates - sheet 1	none		Possibly gun truck - not clear - but for armoured train		FALSE
61	C	19746		Details of cupboards and lockers	11 Mar 1915		Gun truck and infantry van for armoured train		FALSE
61	C	19745		Arrangement and details of ammunition boxes for gun trucks	11 Mar 1915		Gun truck for armoured train		FALSE
61	C	19741		Details of pigeon holes in gun truck	11 Mar 1915		Gun truck for armoured train		FALSE
61	C	19740		Arrangement of latrines	11 Mar 1915		Infantry van for armoured train		FALSE
61	C	19739		Details of roof plates	none		Gun truck for armoured train		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
61	C	19749		Plans showing fittings in infantry vans	19 Mar 1915		Infantry van for armoured train		FALSE
61	C	19748		Details of wardrobe and cabinets in infantry van	19 Mar 1915		Infantry van for armoured train		FALSE
62	C	19799		Arrangement and details of reversing gear	6 Apr 1914	7 Jan 1943	4'3" eight coupled coal engine (superheated) - class G1	Also used for Class G, G2 and F locomotives	FALSE
62	C	19798		Details of valve motion	7 Apr 1915		4'3" eight coupled coal engine (superheated) - class G1		FALSE
62	C	19797		Spring for locomotive engines - reference letter "W13"	24 Apr 1915	10 Nov 1943	6 types of goods and coal engine		FALSE
62	C	19796		Details of forgings for spring gear for leading, driving and trailing wheels	6 Apr 1915	17 Aug 1937	4'3" eight coupled coal engine (superheated) - class G1	Also used for other engines	FALSE
62	C	19795		Details of brake gear	7 Apr 1915	2 Oct 1951	4'3" eight coupled coal engine (superheated) - class G1		FALSE
62	C	19794		Details of lagging for boiler	6 Apr 1915	25 Feb 1921	4'3" eight coupled coal engine (superheated) - class G1	Also used for other engines	FALSE
62	C	19793		General arrangement and details for damper gear	24 Apr 1915	27 Jun 1946	4'3" eight coupled coal engine (superheated) - class G1	Also used for Class G, D and F locomotives	FALSE
62	C	19792		Details of frame plates	28 Apr 1915	19 Dec 1946	4'3" eight coupled coal engine (superheated) - class G1		FALSE
62	C	19791		Details of covering plates	24 Apr 1915	28 Feb 1946	4'3" eight coupled coal engine (superheated) - class G1		FALSE
62	C	19790		Sections and end views	8 Oct 1912		6'0" 6 coupled passenger engine - superheated - Prince of Wales class	First engine built October 1911 - 2 COPIES OF THIS DRAWING - also in Crewe unnumbered series	FALSE
62	C	19788		Detail of gudgeon pins and fittings for 3 1/2 inch piston rods	16 Jun 1915	7 Sep 1946	15 classes of engine		FALSE
62	C	19787		Locomotive crossheads for engines with 3 1/2 inch piston rods	8 May 1915	7 Sep 1946	15 classes of engine		FALSE
62	C	19786		General arrangement and details of injector gear	16 Apr 1915		6'0" 6 coupled passenger engine - Prince of Wales class		FALSE
62	C	19785		Details of forgings for brake gear	4 May 1915		6'0" 6 coupled passenger engine - Prince of Wales class		FALSE
62	C	19784		Details of reversing shaft, brackets and levers	22 Apr 1915		6'0" 6 coupled passenger engine - Prince of Wales class		FALSE
62	C	19782		Details of footplate corner brackets and footsteps	22 Apr 1915		6'0" 6 coupled passenger engine - Prince of Wales class	Locos fitted with vacuum brake	FALSE
62	C	19781		Details of shield for radial truck axlebox	16 Apr 1915		6'0" 6 coupled passenger engine - Prince of Wales class		FALSE
62	C	19780		General arrangement of auto vacuum brake (end views)	6 May 1915		6'0" 6 coupled passenger engine - Prince of Wales class		FALSE
62	C	19779		General arrangement of auto vacuum brake	6 May 1915		6'0" 6 coupled passenger engine - Prince of Wales class		FALSE
62	C	19778		Details of covering plates	16 Apr 1915	27 Apr 1920	6'0" 6 coupled passenger engine - Prince of Wales class	2 COPIES OF THIS DRAWING	FALSE
62	C	19771		24" vacuum brake sack and fittings	16 Apr 1915	13 Jun 1940	11 classes of passenger and goods engine		FALSE
62	C	19777		Details of frame plates	16 Apr 1915	18 Dec 1946	6'0" 6 coupled passenger engine - Prince of Wales class		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
62	C	19773		Standard Duplex safety valve - details of experimental spring	4 May 1915		Standard fitting		FALSE
62	C	19770		Automatic vacuum brake - details of relief and drain valves	16 Apr 1915		Standard fitting		FALSE
62	C	19754		Additional balance weights for existing wheels	10 Mar 1915		6'6" 4 wheel coupled passenger engine - Precursor class		FALSE
63	C	19896		Arrangement and detail of India rubber water bag connection between engine and tender	17 Dec 1915		Standard fitting	Also in Crewe unnumbered series	FALSE
63	C	19890		Steam heating apparatus - details of drain valve for "Gresham and Craven" hose couplings	24 Nov 1915		Standard fitting	Hoses subsequently subject to LMSR specification, pattern no. 4068	FALSE
63	C	19886		Detail of cover plate over reversing screw	23 Jul 1915		6'0" 6 coupled passenger engine - Prince of Wales class		FALSE
63	C	19884		Details of cab and panel plates	25 Nov 1915		6'0" 6 coupled passenger engine - Prince of Wales class	This arrangement used by contract builders in Glasgow	FALSE
63	C	19881		General arrangement of reversing shaft brake gear	11 Nov 1915		4'3" eight coupled coal engine (superheated) - class G1		FALSE
63	C	19878		Arrangement of pyrometer. Lubricator and pipes	4 Nov 1915	17 Jul 1946	4'3" eight coupled coal engine (superheated) - class G1	Also in Crewe unnumbered series	FALSE
63	C	19877		Details of gusset stay brackets for smokebox tubeplate	4 Nov 1915		4'3" eight coupled coal engines (superheated) - classes G1 and G2		FALSE
63	C	19876		Detail of standard safety valve seating for boilers with round top firebox shell plates	4 Nov 1915		Many classes of passenger and goods engine		FALSE
63	C	19874		General arrangement and details of clip for cylinder tail rod cover	4 Nov 1915		Prince of Wales and George V classes		FALSE
63	C	19873		Blow off cock for engines stationed at Willesden	10 Oct 1915		Fitting for Willesden shed		FALSE
63	C	19859		Spring gear for leading and driving wheels	21 Oct 1915	26 Feb 1943	4'3" eight coupled coal engine (superheated) - class G1		FALSE
63	C	19857		Detail of plate trough in bottom of axlebox	8 Oct 1915		3000 gallon tender	Not used	FALSE
63	C	19854		Arrangement and details of gear for working Wakefield's No. 7 Mechanical Lubricator	13 Oct 1915	5 Oct 1942	4'3" eight coupled coal engine (superheated) - class G1		FALSE
63	C	19850		Gusset brackets for wood buffer beams	26 Aug 1915		4'6" and 4'3" side tank engines		FALSE
63	C	19840		Arrangement and details of steadying bracket for boiler	1 Sep 1915		6'6" 6 coupled passenger engine - 4 cylinders, Claughton class		FALSE
63	C	19839		Proposed spring arrangement for water dip lever	24 Aug 1915		3000 gallon tender		FALSE
63	C	19837		Arrangement and details of reversing gear	1 Sep 1915	14 Oct 1935	6'0" 6 coupled passenger engine - Prince of Wales class	This arrangement used by contract builders in Glasgow - 16 Jul 1918	FALSE
63	C	19831		Standard oil boxes and cups	31 Aug 1915	16 Jan 1924	Standard fitting		FALSE
63	C	19824		Detail of foundation ring for firebox	3 Jul 1915		4'3" eight coupled coal engines (superheated) - classes G1 and G2		FALSE
63	C	19823		Details of boiler and firebox plates	8 Jul 1915		4'3" eight coupled coal engines (superheated) - classes G1 and G2		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
63	C	19822		Arrangement of valve motion	23 Jun 1915		4'3" eight coupled coal engines (superheated) - class G1		FALSE
63	C	19814		Standard draw hooks G, G1, G2	21 Jun 1915		Many classes of passenger engine and 3 classes of goods engine		FALSE
63	C	19810		Details of boiler and firebox plates	16 Jun 1915		6'0" 6 coupled passenger engine - Prince of Wales class		FALSE
63	C	19809		Details of foundation rings for firebox	16 Jun 1915		6'0" 6 coupled passenger engine - Prince of Wales class		FALSE
63	C	19802		Detail of stamped splashers	20 Mar 1929		4'3" eight coupled coal engines (superheated) - classes G1 and G2	Later version of other drawing with same number	FALSE
63	C	19802		Detail of splashers	7 Apr 1915		4'3" eight coupled coal engine (superheated) - class G1		FALSE
63	C	19801		Details of motion plate	24 Apr 1915		4'3" eight coupled coal engine (superheated) - class G1		FALSE
63	C	19800		Details of reversing shaft brackets	7 Apr 1915	23 Nov 1923	4'3" eight coupled coal engine (superheated) - class G1	With indirect valve motion only	FALSE
64	C	19991		Arrangement of doors between engine and tender	19 Aug 1916		"George the Fifth" class	Also suits "Prince of Wales", "Experiment", "Precursor", 5'0" Goods	FALSE
64	C	19987		Index plate for reversing screw	18 Jul 1916		"Pince of Wales" & "Geo the Fifth " class	Engines with valves having 1 1/16" and 1 1/4" lap	FALSE
64	C	19997		Details of footstep pads	28 Apr 1920		3000 gall. Tender		FALSE
64	C	19996		Davies & Metcalfe 10mm exhaust steam injector. Details of cones etc:	4 Sep 1916				FALSE
64	C	19995		Davies & Metcalfe 10mm exhaust steam injector. Details of body castings & general arrangement	4 Sep 1916				FALSE
64	C	19994		Arrangement of White's water lifter: large size	4 Sep 1916		4'3" six coupled coal engine		FALSE
64	C	19992		Arrangement & details for woering a large "B" type mechanical lubricator	19 Aug 1916		5'6" six coupled side tank engine		FALSE
64	C	19959		Detail of blast pipe with loose top, fitted with wings	22 May 1916		"Claughton" class		FALSE
64	C	19955		Details of wood foot boards	3 May 1916		4'6" four coupled side tank engines: 6 & 8 wheeled		FALSE
64	C	19950		Standard taper peg pins	16 Oct 1924		Ex-LNWR engines		FALSE
64	C	19947		"B" type mechanical lubricator fitted with friction drive: details of forgings	13 Jul 1915				FALSE
64	C	19946		"B" type mechanical lubricator fitted with friction drive: details of castings	28 Mar 1916	25 Nov 1943			FALSE
64	C	19945		"B" type mechanical lubricator fitted with friction drive: general arrangement	28 Mar 1916	23 Nov 1943			FALSE
64	C	19944		Boiler protection plates from injector overflow	22 May 1916		6 passenger types & 19 goods types		FALSE
64	C	19943		General arrangement of sand gear	4 Apr 1916		2-8-0, 0-8-0 & 0-8-4 locomotives		FALSE
64	C	19937		Details of footboard	23 Mar 1916		4'3" side tank coal engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
64	C	19932		Spring pad 1 1/2" thick for 10" x 5" & 11" x 5 1/2" axle boxes	12 May 1916		3000 gall. Tender	This pad replaces one of 1" thickness but is only to be used for tenders built before May 1916	FALSE
64	C	19930		Details of footboard	4 Mar 1916		4'3" six wheel coupled special tank engine		FALSE
64	C	19928		Spring pad for axle box for 11" x 5 1/2" journals	23 Mar 1916		3000 gall. Tender with sloping bunker	This pad to be used for new tenders commencing with the T275 a/c	FALSE
64	C	19927		Details of cab and panel plates	8 Mar 1916		Class G1		FALSE
64	C	19926		Details of wheels	28 Feb 1916		5'6" six coupled side tank engine	This tracing used for engines built after March 1916	FALSE
64	C	19924		Details of life guards	27 Apr 1920		3000 gall. tender with sloping bunker		FALSE
64	C	19916		Details of cylinder covering plates in smokebox	14 Feb 1916		Class G1		FALSE
64	C	19913		Details of cones, lid, spindle and packing for sand gear	9 Feb 1916		Class G1		FALSE
64	C	19910		Details of copper steam pipes and flanges in smokebox	21 Jan 1916		5'0" six coupled goods, 5'0" six coupled side tank		FALSE
64	C	19909		Detail of steel steam pipe and flanges in smokebox	24 Jan 1916		4'3" six coupled coal engine, 4'3" side tank & 4'3" saddle tank		FALSE
64	C	19908		Detail of steel steam pipe and flanges in smokebox	21 Jan 1916		6'0" & 6'6" four wheel coupled passenger engine, 5'6" four coupled side tank (all straight link)		FALSE
64	C	19905		Detail of standard fire hole for locomotive boilers	21 Jan 1916				FALSE
64	C	19901		Arrangement of riveting in foundation ring for firebox	17 Oct 1922		G1 & G2 classes. Also used for 4'3" eight coupled side tank & 0-8-4 tank		FALSE
64	C	19900		Beam for lifting locomotive wheels	18 Jan 1916				FALSE
65	C	20089		Arrangement and details of wire gauze doors	11 Jan 1917		3000 gall. Tender	Tank with coal well as first built	FALSE
65	C	20087		Table of heights of engines with all axleboxes down on the thimbles & wheels fitted with new tyres			Various types		FALSE
65	C	20078		General arrangement of White's water lifter	6 Jan 1917		G class (for overseas)		FALSE
65	C	20068		Details of connection etc: for White's water lifter	9 Jan 1917		G class		FALSE
65	C	20066		Particulars and dimensions of castle nuts	20 Dec 1916		Standard		FALSE
65	C	20060		Detail of tank (built of large plates)	4 Dec 1916	8 Dec 1949	3000 gall. tender with water bottom tank and sloping bunker		FALSE
65	C	20052		Details of blast pipe	24 Jan 1917		4'3" eight coupled coal engine with ordinary slide valves (superheated)		FALSE
65	C	20050		Arrangement of smoke box and superheater damper gear	24 Jan 1917	18 Jun 1918	4'3" eight coupled coal engine with ordinary slide valves (superheated)		FALSE
65	C	20049		Details of frame and covering plates	12 Feb 1917		4'3" eight coupled coal engine with ordinary slide valves (superheated)		FALSE
65	C	20039		Details of castings for re-balancing old wheels	23 Nov 1916		5'6" six coupled side tank engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
65	C	20032		Arrangement of service recorder in cab	13 Nov 1916		4'3" six coupled special tank engine		FALSE
65	C	20031		Details of fittings for vacuum controlled regulator gear	1 Nov 1916		4' 6" four wheel coupled side tank passenger engine (motor train working)		FALSE
65	C	20030		Arrangement of vacuum controlled regulator gear for motor train working	9 Nov 1916		4' 6" four wheel coupled side tank passenger engine		FALSE
65	C	20029		Diagram arrangement of pipes and couplings for vacuum controlled regulator gear	1 Nov 1916		Motor train		FALSE
65	C	20028		Details of valve setting templets	9 Nov 1916		Cloughton, George the Fifth, Prince of Wales, 5'6" six coupled side tank, G1 & G2 class		FALSE
65	C	20013		Footplate protection sheet	10 Oct 1945		Cloughton, George the Fifth, Prince of Wales, 5'0" six coupled goods, G1 & G2 class		FALSE
65	C	20008		Diagram of vacuum brake and carriage heating pipes for locomotives. Sheet 5	22 Aug 1916		6 classes of locomotive		FALSE
65	C	20007		Diagram of vacuum brake and carriage heating pipes for locomotives. Sheet 4	22 Aug 1916		4 classes of locomotives		FALSE
65	C	20006		Bracket for gauge lamp	14 Sep 1916		Classes D, F, G & G1	Not required on engines fitted with water gauge shut off gear	FALSE
66	C	20278		Details of hornblocks	25 Jan 1918		G2 class with gudgeon pins 3 1/2" diameter	Also 4'3" 8 coupled side tank coal engine 0-8-4 type	FALSE
66	C	20272		Details of piston rod and slide bars	20 Jan 1918	11 Jul 1950	G2 class with gudgeon pins 3 1/2" diameter		FALSE
66	C	20262		Details of motion plate, radius rod and valve rocking lever brackets	2 Jan 1918	19 Dec 1946	G2 class		FALSE
66	C	20249		Details of brake gear for engines with 24ins vacuum sack	18 Dec 1917		4'3" 6 coupled side tank coal engine		FALSE
66	C	20244		Diagram of Joy's valve motion	29 Oct 1917		Standard fitting		FALSE
66	C	20239		Diagram shewing varying thickness of gudgeon pin and connecting rod bolt washers	27 Nov 1917		6'6" 6 coupled passenger engine (4 cylinders)		FALSE
66	C	20236		Arrangement and details of vacuum brake pipes	10 Dec 1917		2500 gallon tender for 4'3" 6 coupled coal engines (in Egypt)		FALSE
66	C	20235		General arrangement of automatic vacuum brake	10 Dec 1917		4'3" 6 coupled coal engines (in Egypt)		FALSE
66	C	20225		Arrangement and details of cylinder cock gear	27 Nov 1917		4'6" 4 coupled side tank engine, 6 and 8 wheeled		FALSE
66	C	20213		Details of cross head gudgeon pin and fittings	9 Nov 1917	26 Aug 1925	G2 class with gudgeon pins 3 1/2" diameter		FALSE
66	C	20206		General arrangement of automatic vacuum	29 Oct 1917		4'3" 6 coupled coal engine		FALSE
66	C	20162		Diagram of Walchaert's valve motion	26 Jun 1917		6'6" 6 coupled passenger engine, 4 cylinders (Cloughton class)		FALSE
66	C	20115		Spring gear with slipper brackets	22 Mar 1917		3000 gallon tender		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
66	C	20111		Details of axlebox, hornblocks, stays, etc.	2 Mar 1917		6'6" 4 coupled George V class, radial truck with 7 1/2" diameter x 12" axle bearings		FALSE
66	C	20100		Details of steel firebox	21 Feb 1917		Boiler for 4'3" 6 coupled coal engine		FALSE
67	C	20392		General arrangement of smokebox for engine fitted with 'Robinson's superheater'	10 Jul 1918		6'6" Claughton class		FALSE
67	C	20390		Arrangement and details of spring gear for intermediate wheels	10 Jul 1918	4 Nov 1943	G2 class with gudgeon pins 3 1/2" diameter	Also 4'3" 8 coupled side tank coal engine 0-8-4 type	FALSE
67	C	20388		Diagrams of footplate and cab window protection sheets for locomotive engines	17 Jun 1918		Many classes of engine		FALSE
67	C	20384		Wedge apparatus for separating piston rod and crosshead	22 Jun 1918		6'6" 6 coupled passenger engine (Claughton class)		FALSE
67	C	20378		Arrangement of handrails around bunker and extension of footplate at trailing end	12 Feb 1919		5'6" 6 coupled side tank engine (superheated)		FALSE
67	C	20375		Details of alterations to rocking shaft brackets and valve motion	6 Jun 1918		6'0" Prince of Wales class		FALSE
67	C	20374		Arrangement and details of screens for windows at trailing end of cab	4 Jun 1918		13 side tank engines		FALSE
67	C	20372		Details of smokebox steam pipes for engine fitted with 'Robinson's' superheater	22 May 1918		6'6" Claughton class		FALSE
67	C	20335		Lever for regulator	23 Apr 1918		4'3" 8 wheel coupled compound coal engine (small boilers), classes B and E	Also 4'3" 6-C coal saddle tank & 8-C coal (small boiler) and 7'0" Alfred the Great and Renown	FALSE
67	C	20332		Arrangement and details of brake gear with cast iron brake blocks	19 Apr 1918		4'0" 4 coupled shunting engine		FALSE
67	C	20331		Details of boiler fitted with steel firebox and stays	19 Apr 1918		6'6" 6 coupled passenger engine, 4 cylinders (Claughton class)	See drawing 18756	FALSE
67	C	20330	PC	Detail shewing section of spokes for coupled wheels	13 Apr 1920		Prince of Wales class		FALSE
67	C	20327		Arrangement and details of brake gear with cast iron brake blocks	11 Apr 1918		5'0" 18" goods engine		FALSE
67	C	20326	PC	Detail of brake hanger	5 Sep 1919		4'3" 6 wheel coupled coal engine		FALSE
67	C	20326		Arrangement and details of brake gear with cast iron brake blocks	11 Apr 1918		4'3" 6 wheel coupled coal engine		FALSE
67	C	20322		Detail of elements for Robinson superheater	19 Apr 1918		6'6" Claughton class		FALSE
67	C	20320		Details of boiler with steel firebox and stays	9 Apr 1918		4'3" 8 coupled coal engine (superheated) class G2		FALSE
67	C	20310		Arrangement of piping and brake gear for locomotives with 24" vacuum sack	15 Feb 1918		4'3" 6 coupled side tank coal engine fitted with 24" vacuum sack		FALSE
67	C	20303		Details of frame plates	22 Feb 1918	5 Jan 1947	Class G2 with gudgeon pins 3 1/2" diameter		FALSE
67	C	20302		Detail of ashpan	22 Feb 1918	16 Jul 1934	Class G2 with gudgeon pins 3 1/2" diameter	Also 4'3" 8 coupled side tank coal engine 0-8-4 type	FALSE
67	C	20300		Details of castings for spring gear and ashpan	22 Feb 1918		Class G2 with gudgeon pins 3 1/2" diameter	Also 4'3" 8 coupled side tank coal engine 0-8-4 type	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
67	C	20393		General arrangement of spring gear	10 Jul 1918	4 Nov 1943	Class G2 with gudgeon pins 3 1/2" diameter		FALSE
68	C	20497		Arrangement and details of front sand rod	12 Feb 1919		18" goods engine		FALSE
68	C	20487	PC	Details of brake hanger stud	15 Jan 1919		6'6" four wheel coupled George V class		FALSE
68	C	20487		Standard brake hanger	15 Jan 1919		Many classes of engine		FALSE
68	C	20478	Rider	Diagrams shewing alterations to oil grooves in axleboxes	none		None mentioned	Rider to drawing 20478 - missing	FALSE
68	C	20476		Details of wire guard for bunker window	4 Dec 1918		5'6" 6 coupled side tank engine		FALSE
68	C	20466		Standard driver's seat fixed to panel plate	27 Dec 1918		Many classes including Claughton, C, C1, D, G, G1, G2 and 8 wheel coupled coal engines		FALSE
68	C	20447		Details shewing oiling arrangement for intermediate and trailing axleboxes	7 May 1919		6'6" Claughton class	Also used for driving axleboxes	FALSE
68	C	20446		Arrangement of oil boxes on hornblocks for driving axleboxes	3 Nov 1918		4'3" 8 coupled coal engines		FALSE
68	C	20445		Metallic packing with cast iron bushes for 3 1/2" inch piston rods	5 Nov 1918		12 classes of engine - item references V5, V6 and V7		FALSE
68	C	20443		Arrangement and detail of additional steam valves for exhaust steam injector pipes	22 Oct 1918		6'6" 6 coupled passenger engine Claughton class		FALSE
68	C	20441		Arrangement shewing tubeplates fitted with 2 1/4 inch tubes	31 Oct 1918		6'6" 6 coupled passenger engine Claughton class		FALSE
68	C	20437		Details of oil boxes for driving axleboxes	26 Oct 1918		4'3" 8 coupled coal engines		FALSE
68	C	20429	PC	Arrangement of driving sandbox above footplate	24 Sep 1918		6'0" Prince of Wales class		FALSE
68	C	20438		Arrangement of oil boxes and lubricating pipes for driving and intermediate axleboxes	13 Aug 1920	25 Jan 1928	6'6" 6 coupled passenger engine Claughton class		FALSE
68	C	20436		Details of oil box for trailing axlebox	26 Oct 1918		6'6" 6 coupled passenger engine Claughton class		FALSE
68	C	20436		Oil box for intermediate and trailing axleboxes also for driving axlebox	10 Sep 1919		6'6" 6 coupled passenger engine Claughton class		FALSE
68	C	20434		Diagram shewing removal of superheater damper gear	9 Oct 1918		6'6" 6 coupled passenger engine Claughton class	Also used for George V, Prince of Wales, 5'6" side tank and 4'3" 8 coupled coal engine	FALSE
68	C	20429		Arrangement of sand gear	27 Apr 1920		6'0" 6 coupled Prince of Wales class		FALSE
68	C	20428		Arrangement of oil box and lubricating pipes for trailing axlebox	13 Aug 1920		6'6" 6 coupled passenger engine Claughton class		FALSE
68	C	20421		Details of oil boxes and connections on pipes for lubricating axleboxes	19 Apr 1922		6'6" 6 coupled passenger engine Claughton class		FALSE
68	C	20417		Details of driving sandboxes and gear	24 Sep 1918		6'0" 6 coupled Prince of Wales class		FALSE
68	C	20414		Small end of connecting rod for engines	27 Aug 1918		6'0" 6 coupled Prince of Wales class with 3 1/2 inch gudgeon pins		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
68	C	20413		Details of piston rod and slide bars	22 Aug 1918	26 Feb 1941	6'0" 6 coupled Prince of Wales class with 3 1/2 inch gudgeon pins		FALSE
68	C	20411		Details of 3 1/2 inch crosshead gudgeon pin and fittings	22 Aug 1918		6'0" 6 coupled Prince of Wales class with 3 1/2 inch gudgeon pins		FALSE
68	C	20405		Details of cylinder covers and piston head, pistons without tail rods	25 Jan 1932	14 Aug 1940	6'0" 6 coupled Prince of Wales class with 3 1/2 inch gudgeon pins		FALSE
68	C	20400		Detail of motion plate radius rod bracket and valve rocking lever bracket	30 Jul 1918		6'0" 6 coupled Prince of Wales class with 3 1/2 inch gudgeon pins		FALSE
69	C	20594		Diagram of studs required for boiler mountings	15 Aug 1919		G1 & G2 classes		FALSE
69	C	20593		General arrangement and details of driving axle box lubrication	10 Jul 1919		George the Fifth, Precursor, Prince of Wales, Experiment & 5'0" goods 19" x 26" cyls.		FALSE
69	C	20584		Details of firebars and centre carrier	10 Jul 1919	2 Aug 1919	Ex WD 2-8-0 mineral engine (Consolidation type)	References to a later drawing, same No. not in roll	FALSE
69	C	20583		Miscellaneous steel castings for engines and tenders. Sheet No. 1	23 Jul 1919		Various		FALSE
69	C	20580		Detail of tender trailing draw hook	11 Jul 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
69	C	20579		Details of engine & tender brake blocks & bolts	10 Jul 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
69	C	20578		Details of flanged boiler plates before flanging	16 Jul 1919		G1 & G2 classes		FALSE
69	C	20567		Detail of buffer springs	No date		5'0" six coupled goods engine cyls. 19" x 26"		FALSE
69	C	20566		Brake blocks for engine & tender wheels	No date		5'0" six coupled goods engine cyls. 19" x 26"		FALSE
69	C	20556		details of adjustable internal chimney	13 Jun 1919		Claughton class		FALSE
69	C	20555		Details of fire bars, carriers & brackets	13 Jun 1919		5'0" six coupled goods engine cyls. 19 x 26"		FALSE
69	C	20554		Copper tube plate & stays for firebox	20 Jun 1919		5'0" six coupled goods engine cyls. 19 x 26"		FALSE
69	C	20538		Diagram of studs required for outside boiler mountings	24 May 1919		Claughton class		FALSE
69	C	20528		General arrangement of reversing shaft brake gear	14 Apr 1919		Prince of Wales class		FALSE
69	C	20522		Miscellaneous steel castings for locomotives. Sheet 3	26 Jul 1919		Experiment, Prince of Wales, G1 & 7'0" four coupled compound		FALSE
69	C	20521		Miscellaneous steel castings. Sheet 2	No date		George the Fifth, G1		FALSE
69	C	20520		Details of steel castings for spring buckles	26 Jul 1919		None specified		FALSE
69	C	20519		Details of miscellaneous steel castings	16 Mar 1917		Prince of Wales class		FALSE
69	C	20516		Details of foundation ring for firebox	4 Apr 1919		Claughton class		FALSE
69	C	20515		Detail of tubes & joints	7 Jul 1919		Claughton class		FALSE
69	C	20514		Details of boiler mountings	No date		Claughton class		FALSE
69	C	20511		Diagram showing alteration to oil grooves in axle boxes	28 Sep 1919		None specific		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
69	C	20510		Details of castings for brake hangers	26 Jul 1919		Six classes of locomotives & one tender		FALSE
69	C	20506		Boilers	22 Jan 1925	20 Mar 1939	5'6" four coupled side tank, 6'0" & 6'6" four coupled straight link passenger engines		FALSE
70	C	20670		Details of buffers	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20662		Arrangement & details of coal retaining doors	22 Oct 1919		3000 gall. tender with coal well as first built		FALSE
70	C	20661		Details of miscellaneous steel castings for engine & tender	No date		Cloughton class		FALSE
70	C	20660		Detail of crosshead casting	No date		Cloughton class		FALSE
70	C	20658		Detail of firehole door fittings	20 Oct 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20657		Arrangement of firehole door	20 Oct 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20638		Details of connections etc: for mechanical lubrication of axles (Wakefield's)	3 Oct 1919	2 Oct 1942	G1 class		FALSE
70	C	20637		General arrangement for mechanical lubrication of axles (Wakefield's)	20 Oct 1919		G1 class		FALSE
70	C	20636		Coal watering arrangements	20 Oct 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20635		Oil box for intermediate & trailing axleboxes	15 Sep 1919		Prince of Wales, George the Fifth, Experiment, Precursor & 19" goods		FALSE
70	C	20634		Renewable valve seating for steam valve for "re-starting" injector	19 Oct 1919		All locos with restarting injectors		FALSE
70	C	20616		Diagram of solid & split taper peg pins	16 Sep 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20613		Brass connections for 'B' type mechanical lubricator pipes	11 Sep 1919		Cloughton class		FALSE
70	C	20612		Firebricks for firebox brick arch	11 Oct 1920		Ex WD 2-8-0 mineral engine (Consolidation type)	Rider to drg. 20612	FALSE
70	C	20612		Arrangement & details of firebrick arch	5 Sep 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20611		Details of connecting & coupling rod bushes	18 Aug 1927		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20610		Details of steps for engine & tender axle boxes	5 Sep 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20609		Arrangement & details of gear & pipes for Crewe 'B' type mechanical lubricator	29 Sep 1919		Cloughton class		FALSE
70	C	20698		Springs, spring links & pads for tenders	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20697		Coupled spring & spring links	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20696		Glass water gauges	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20695		Whistle & details	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20692		Arrangement of lubricators for axleboxes	11 Nov 1919		Greenore engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
70	C	20688		Water pipe connection	24 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20678		Arrangement of L & NWR injector hosepipe on Gresham & Craven injector	13 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20675		Eccentric sheaves & straps	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
70	C	20671		Details of crosshead	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
68	C	20438	PC	Lubrication - alteration to holes in the splasher	31 May 1922		Cloughton class		FALSE
71	C	20795	PC	Standard spanners	1 Mar 1920		M M engines (not known what these are)		FALSE
71	C	20792		Foundry bogie ladle	18 Feb 1920		Foundry tool		FALSE
71	C	20785		Cylinder drain cocks air valve and mechanical lubricator	22 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20784		Coupling rod	21 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20782		Scarab oil burning system - details of ashpan	14 Feb 1920		Precursor class		FALSE
71	C	20779		Connecting rod	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20778		Tender axlebox details, back plate and oilers	14 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20791		Arrangement and details of pipes for four feed mechanical lubricator	23 Feb 1920		6'6" Precursor class (converted to superheater)		FALSE
71	C	20790		Arrangement and details of gear for Crewe 'B' type mechanical lubricator	18 Feb 1920		6'6" Precursor class (converted to superheater)	Applies to existing cylinders with flat valves	FALSE
71	C	20789		Details of steam pipes	18 Feb 1920		7'0" Alfred the Great class (superheated)		FALSE
71	C	20776		Scarab oil burning system - details of oil feed tank	14 Feb 1920		Precursor class		FALSE
71	C	20774		Tender axle box	6 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20771		Eccentric rods	21 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20756		Diagram of firebox fitted with Crewe type brick arch and altered deflector plate	9 Jan 1928		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20754		Details of forgings	9 Jan 1920		6'6" 4 coupled passenger engine, George V class	Fitted with 'Weir' feed pump and feed water heater	FALSE
71	C	20753		Details of castings	9 Jan 1920		6'6" 4 coupled passenger engine, George V class	Fitted with 'Weir' feed pump and feed water heater	FALSE
71	C	20752		General arrangement	9 Jan 1920		6'6" 4 coupled passenger engine, George V class	Fitted with 'Weir' feed pump and feed water heater	FALSE
71	C	20751		Intermediate draw bar	21 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20741		Details of handrails on sides of engine cabs	16 Jan 1920		Standard fitting	Specific mention of George V, Prince of Wales and Cloughton classes	FALSE
71	C	20738		Bogie spring and spring links	11 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
71	C	20724		Alteration to cylinder lubricator pipes	22 Dec 1919		18" goods engine	Also used for 5'0" 6 wheel coupled side tank	FALSE
71	C	20722		Pipe couplings	24 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)	For engines fitted with Westinghouse brake	FALSE
71	C	20721		Pipe couplings	24 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)	For engines fitted with steam brake	FALSE
71	C	20720		Cylinder covers, piston and tail rod casing	30 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20719		Details of metallic packing for piston rod and piston valve spindle	24 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20714		Piston rod and slidebars	24 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20713		Valve spindle, valve connecting rod and reversing link	24 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20711		Drop forged spring shoe	31 Dec 1919		Standard 1800 gallon tender		FALSE
71	C	20760		Details of regulator, safety valve, hornblocks, etc.	22 Jan 1920		Tiny class - 1'4" 4 coupled tramway engine (18" gauge)		FALSE
71	C	20703		Detail cab window glass	24 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20707		Standard duplex vacuum gauge and standard pressure gauge - Bourdon type	9 Dec 1919		For general use		FALSE
71	C	20702		Details of piston valve	30 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
71	C	20701		Piston valve arrangement and liners	30 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
72	C	20804		New smokebox for special tank engine	3 Mar 1920		Special tank engine	This smokebox can also be used for Greenore engines	FALSE
72	C	20845		Standard spanners for M.M.engines	24 Apr 1920		Standard		FALSE
72	C	20844		Details of lifeguards	11 May 1920		Prince of Wales class		FALSE
72	C	20842		General arrangement & details of trailing sandbox gear	7 Jan 1919		4'3" six wheel coupled side tank coal engine		FALSE
72	C	20838		Special rolled sections	27 Apr 1920		Prince of Wales class		FALSE
72	C	20837		Detail of rivet head used in boiler	27 Apr 1920		Prince of Wales class		FALSE
72	C	20834		Rubbing block, axlebox oil pipe guides, frame details & screw jack fixing	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
72	C	20833		Details of flexible steam brake coupling & new arrangement	7 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
72	C	20832		Feed cock, unions etc:	26 Mar 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
72	C	20826		Arrangement of valve motion	14 Jun 1915		Prince of Wales class		FALSE
72	C	20826		Diagram of valve motion for engines without rocking shafts	10 Apr 1920	23 Jul 1923	Prince of Wales class		FALSE
72	C	20821		Cylinders 20 1/2" Dia. X 26" stroke	15 Mar 1920		Prince of Wales class		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
72	C	20820		Spiral springs	22 Mar 1920		Prince of Wales class		FALSE
72	C	20816		Arrangement of Westinghouse brake	23 Mar 1920		Ex-WD 2-8-0 mineral engine (Consolidation type) 4000 gall. Tender		FALSE
72	C	20815		Ashpan plan	29 Jan 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
72	C	20814		Ashpan elevation	29 Jan 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
72	C	20813		Plan of ashpan & firebar arrangement	29 Jan 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
72	C	20812		Elevation of ashpan & firebar arrangement	29 Jan 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
72	C	20810		Steam header discharge valve	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
72	C	20809		Ash shute & lamp holders	12 Mar 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
72	C	20808		Detail of trailing hornblock & keep	15 Mar 1920		Prince of Wales class		FALSE
72	C	20807		Details of tyres for engine wheels	15 Mar 1920		Prince of Wales class		FALSE
72	C	20806		Details of dome for boiler	15 Mar 1920		Prince of Wales class		FALSE
73	C	20899		Diagram sheet of bolts	No date		Prince of Wales class		FALSE
73	C	20898		Oiling arrangement for intermediate & trailing axle boxes	12 Jul 1920		Prince of Wales class		FALSE
73	C	20895		Details of cold rivets & pins	21 Jul 1920		Prince of Wales class		FALSE
73	C	20890		Special bolts, nuts, studs etc:	No date		Prince of Wales class		FALSE
73	C	20889		Arrangement of vacuum brake, carriage heating & water feed pipes	4 Jun 1920		3000 gall. tender with sloping bunker		FALSE
73	C	20887		Arrangement & detail of reversing gear for engines with direct motion	21 Jun 1920	18 Oct 1935	Prince of Wales class		FALSE
73	C	20886		Details of piston rod & slide bars	21 Jun 1920	24 Feb 1941	Prince of Wales class with gudgeon pins 3 1/2" dia. and direct motion		FALSE
73	C	20880		Water gauge lamp	12 Jun 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
73	C	20879		Tender brake pillar	11 Jun 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
73	C	20876		Arrangement for coupling tender to engine when standard pin is used	28 May 1920		3000 gallon tender with water bottom tank & sloping bunker (tank with large plates only)		FALSE
73	C	20874		Details of direct valve motion	12 June 1920		Prince of Wales class		FALSE
73	C	20866		Details of crank pins	17 May 1920		G2 class	These pins used for G & G1 & 4'3" eight coupled side tank & 0-8-4 with new coupling rods	FALSE
73	C	20864		Steam header discharge valve details	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
73	C	20863		Stop cock & carrier for steam brake & rail washing details	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
73	C	20862		Details of reversing gear	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
73	C	20856		Cab window	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
73	C	20855		Details of connections for armoured hose pipes to leading & driving axleboxes	7 May 1920	2 Oct 1942	G1 class (fitted with Wakefield's mechanical lubricator to axleboxes)		FALSE
73	C	20854		Detail of water circulator in firebox	10 May 1920		Claughton class		FALSE
73	C	20853		Detail of expansion ring for water circulator in firebox	10 May 1920		Claughton class		FALSE
73	C	20852		Details of cab plates & panels	17 May 1920		Prince of Wales class		FALSE
73	C	20850		Lamp brackets for engine	28 Apr 1920		Prince of Wales class		FALSE
74	C	20948		Spring for locomotive engines, reference letter W18	20 Sep 1920	20 Nov 1943	G, G1 and G2 classes, leading and driving wheels	also 6 other classes of 4'3" 8 coupled engines	FALSE
74	C	20942		Details of joints for water circulator in firebox	1 Sep 1920		Claughton class		FALSE
74	C	20935		Altered arrangement of fall late between engine and tender	27 Aug 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
74	C	20932		Vacuum sack bearings for brake gear with blocks on back of wheels	none		3000 gallon tender with sloping bunker		FALSE
74	C	20931		Blow-off cock and steam stop valve for water lifter	17 Aug 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
74	C	20926		Arrangement of pyrometer, lubricator and pipes	17 Aug 1920		Prince of Wales class		FALSE
74	C	20925		Standard number plate for tenders	17 Aug 1920		Standard fitting		FALSE
74	C	20924		Details of hornblocks and keeps	13 Aug 1920		4'3" 4 cylinder compound		FALSE
74	C	20923		Detail of glass for small cab windows	13 Aug 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
74	C	20922		Cab windows and cab handrail and pillars	13 Aug 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
74	C	20921		Details of riveting of tank	13 Aug 1920	16 Jun 1936	3000 gallon tender with sloping bunker built of large plates		FALSE
74	C	20920		Details of oil boxes	5 Aug 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
74	C	20916		General arrangement and details for working Crewe 'B' type mechanical lubricator	12 Nov 1920		Prince of Wales class		FALSE
74	C	20908		Chimney	5 Aug 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
74	C	20903		Details of firebricks for arch in firebox fitted with water circulator	12 Jul 1920		Claughton class		FALSE
74	C	20901		Water connection between bunker and side tank	12 Jul 1920		4'3" 6 coupled side tank coal engine	Also 3 other classes of side tank engine	FALSE
74	C	20900		Miscellaneous details for lubricating	none		Prince of Wales class		FALSE
75	C	20977		General arrangement of water circulator in firebox	15 Oct 1920		Claughton class	Dye line print - 2 copies	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
75	C	20975		Reversing screw bracket	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20974		Washout door, mud and fusible plugs	9 Jan 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20973		Details of trailing sandbox	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20972		Details of driving sandbox	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20971		Details of leading sandboxes	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20969		Steam valve stand	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20965		Miscellaneous pipe clips and flanges	7 Oct 1920		Prince of Wales class		FALSE
75	C	20964		Index plate for reversing screw nut	15 Oct 1920		Prince of Wales class with direct valve motion		FALSE
75	C	20960		Regulator details and stuffing box	7 Oct 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20959		Regulator and main steam pipe	27 Sep 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20957		Smokebox door details	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20956		Ashpan details and ashpan drench pipe	29 Jan 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	21005		Detail of oil heater and pipe connections as fitted to 3000 gallon tender with sloping bunker	20 Nov 1920		Tender for George V class fitted for "Scarab" oil fuel		FALSE
75	C	21000		Method of fixing gudgeon pin key	29 Oct 1920		Standard fitting		FALSE
75	C	20999		Steam receiver and connections	6 Nov 1920		George V class fitted for "Scarab" oil fuel		FALSE
75	C	20998		Detail of oil feed as fitted to 3000 gallon tender with sloping bunker	6 Nov 1920		George V class fitted for "Scarab" oil fuel		FALSE
75	C	20992		Details of alterations (increasing lead to 3/16" & exhaust clearance to 1/4")	21 Oct 1920		Prince of Wales class	Valve motion unaltered. Does not apply to locos with valves having 1 1/4" lap	FALSE
75	C	20991		Steam brake cylinder	29 Oct 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20990		Reversing shaft and carrier	29 Oct 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20892		Reversing rod and guide	20 Oct 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20981		Brake rod and details	19 Oct 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20980		Details of valve motion for engines without rocking shafts	18 Oct 1920		4'3" 8 coupled coal engine (superheated) Class G1		FALSE
75	C	20979		Bogie (sic) axlebox and slides	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
75	C	20978		Arrangement and details of intake channel for water circulator in firebox	29 Oct 1920		Claughton class		FALSE
75	C	21006		New standard cast iron piston rod packing (3 1/2" diameter)	25 Sep 1920		G2 class, also Prince of Wales class built at Crewe after 1920		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
76	C	21068		Intermediate and trailing wheels, axles, tyre sections and crank pins	22 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
76	C	21067		Leading wheels, axle, crankpin, key and tyre sections	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
76	C	21063		Arrangement of fire bricks in firebox	10 Jan 1921		George V class fitted for "Scarab" oil fuel		FALSE
76	C	21062		Detail of altered screw and stops for reversing screw brackets	1 Dec 1920		4'3" 8 coupled coal engine (superheated) Class G1		FALSE
76	C	21061		Arrangement of steam and oil pipes under trailing end	10 Jan 1921		George V class fitted for "Scarab" oil fuel		FALSE
76	C	21060		Brake reservoir carriers and pipe clips, release springs and details	3 Nov 1920		Tender for ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
76	C	21059		Reservoir carriers and pipe clips, release springs and details	3 Nov 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
76	C	21058		Details of clips for oil and steam pipes, Scarab oil fuel system	7 Jan 1921		3000 gallon tender with sloping bunker		FALSE
76	C	21057		Arrangement of fire bricks in ashpan	7 Jan 1921		George V class fitted for "Scarab" oil fuel		FALSE
76	C	21056		Oil box for driving and intermediate axleboxes - weather plate over hinge	17 Sep 1920		Claughton class		FALSE
76	C	21055		Arrangement for operating oil and steam valves	4 Jan 1920		George V class fitted for "Scarab" oil fuel		FALSE
76	C	21054		Details of cylinders - elevation and sectional plan	16 Dec 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
76	C	21053		Cylinders - end views	16 Dec 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
76	C	21051		Arrangement of ashpan steam and oil pipes	3 Jan 1921		George V class fitted for "Scarab" oil fuel		FALSE
76	C	21044		Details of steam valves and connections	24 Dec 1920		George V class fitted for "Scarab" oil fuel		FALSE
76	C	21043		Piston rod packing swab gland	16 Dec 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
76	C	21041		Details and position of brackets for filling pipe and rotary pump	1 Jan 1921		George V class fitted for "Scarab" oil fuel		FALSE
76	C	21036		Arrangement and details of damper and drain cock gear	18 Dec 1920		George V class fitted for "Scarab" oil fuel		FALSE
76	C	21035		Details of oil valves and connections	18 Dec 1920		George V class fitted for "Scarab" oil fuel		FALSE
76	C	21034		Alteration to auto vacuum brake	16 Dec 1920		George V class fitted for "Scarab" oil fuel		FALSE
76	C	21031		Arrangement and details of gauge for oil feed tank	14 Dec 1920		3000 gallon tender for George V class fitted for "Scarab" oil fuel, with sloping bunker		FALSE
76	C	21028		Miscellaneous details for oil feed tank	13 Dec 1920		3000 gallon tender for George V class fitted for "Scarab" oil fuel, with sloping bunker		FALSE
76	C	21023		General arrangement and details for fitting Schaffer-type injector	10 Dec 1920		Tramway engine		FALSE
76	C	21020		Details of ashpan	10 Dec 1920		George V class fitted for "Scarab" oil fuel		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
76	C	21017	Rider	Supplementary balance weight for intermediate wheels	24 May 1921		G1 class when used for G2 class		FALSE
76	C	21017		Details of wheels	30 Nov 1920		G2 class (superheated)	Also three other 4'3" 8 coupled engines (G, G1 and side tank shunting engine)	FALSE
76	C	21016		Detail of oil feed plug cock	24 Nov 1920		3000 gallon tender for George V class fitted for "Scarab" oil fuel, with sloping bunker		FALSE
76	C	21014		Arrangement of gears	10 Nov 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
76	C	21013		Arrangement of gears	27 Sep 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
76	C	21007		Details of miscellaneous castings	20 Dec 1920		3000 gallon tender for George V class fitted for "Scarab" oil fuel, with sloping bunker		FALSE
77	C	21097		Driving wheels, axles, tyre sections and crank pins	21 Jan 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
77	C	21098		Tender wheels, axles and tyre sections	15 Jan 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
77	C	21095		Bogie wheel, axles and tyre sections	15 Jan 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
77	C	21086		Details of valve motion	7 Feb 1921		G2 class		FALSE
77	C	21083		Cylinder drain cock details	6 Dec 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
77	C	21082		Steam header	20 Nov 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
77	C	21080		General arrangement of smokebox	29 Jan 1921		Alfred the Great class		FALSE
77	C	21077		Diagram showing normal and minimum distances allowed between engine & tender... (contd. in Other Information)	21 Jan 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	(Continued from Title) ...and leading coupling rod and crosshead	FALSE
77	C	21074		Arrangement and details for fitting with 'Teloc' speedometer	15 Jan 1921		3000-gallon tender		FALSE
77	C	21073		Footplate protection sheet	15 Jan 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
77	C	21071	A	Arrangement of baffle plate in smoke box	30 Nov 1920		Precursor class		FALSE
77	C	21071		Arrangement of baffle plate in smoke box	11 Jan 1921		George V class fitted for "Scarab" oil fuel		FALSE
77	C	21089		Arrangement of firebricks in ashpan	16 Feb 1921		Precursor class no. 2585 "Watt" fitted with "Scarab" oil fuel		FALSE
77	C	21070		General arrangements and details of protection and shield plates on footplate	15 Jan 1921		George V class fitted for "Scarab" oil fuel		FALSE
100	C	29119		General view	1 Apr 1903		5'0" 6 wheel coupled compound 4 cylinder goods engine	Paper copy	FALSE
100	C	29120		General arrangement - sections	8 Jun 1904		7'0"4 wheel coupled compound passenger engine		FALSE
100	C	29122		General arrangement - sections	8 Jun 1904		7'0"4 wheel coupled compound passenger engine		FALSE
100	C	29123		General arrangement - sections	Jun 1891	11 Apr 1894	6'0" 4 wheel coupled passenger engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
100	C	29124		General arrangement - sections	22 Oct 1891		7'0" 8 wheel compound passenger engine		FALSE
100	C	29127		General arrangement - sections	25 Oct 1892		4'3" 8 wheel coupled coal engine		FALSE
100	C	29130		General arrangement - sections	Sep 1901		4'3" 8 wheel coupled 4 cylinder compound coal engine		FALSE
100	C	29131		Elevation and plan	Sep 1901		4'3" 8 wheel coupled 4 cylinder compound coal engine		FALSE
100	C	29134		General arrangement - sections	Mar 1906		4'3" 8 wheel coupled compound coal engine, class D		FALSE
78	C	21143		Mechanical lubricator details	5 May 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
78	C	21139	A	Smokebox - elevation	16 Apr 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
78	C	21139		Smokebox - sectional end view	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
78	C	21137		Arrangement and details of gear and pipes for Crewe 'B' type mechanical lubricator	25 Apr 1921		Cloughton class		FALSE
78	C	21136		Experimental bush in blastpipe	25 Apr 1921		Cloughton class		FALSE
78	C	21130		Exhaust pipe nozzle	2 Apr 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
78	C	21129		Brake shaft carriers	19 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	For engines fitted with Westinghouse brake	FALSE
78	C	21128		Axlebox slides, trailing	2 Apr 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
78	C	21127		Axlebox slides, intermediate	19 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
78	C	21126		Axlebox slides, driving	19 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
78	C	21125		Axlebox slides, leading	19 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
78	C	21117		Arrangement of steam pipes & valves in cab & starting up pipe to blower; also details of clips etc.	8 Mar 1921		George V class fitted for Scarab oil fuel		FALSE
78	C	21116		Steam brake shaft and carrier	8 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	Two drawings with same number	FALSE
78	C	21116		Detail of brake block shaft and carrier	30 Nov 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	Two drawings with same number	FALSE
78	C	21115		Arrangement and details for working Crewe 'B' type mechanical lubricator	19 Mar 1921		Alfred the Great class (superheated)		FALSE
78	C	21106		Brake hangers and carriers	2 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
78	C	21105		Westinghouse brake shaft and piston rod	2 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)		FALSE
78	C	21104		Details of lubricator connections for high pressure cylinder	2 Mar 1921		Alfred the Great class (superheated)		FALSE
78	C	21102		Details of piston valves with cast iron rings for high pressure cylinders	26 Feb 1921		Alfred the Great class (superheated)		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
79	C	21199		Position of holes in 3000 gall. tender (sloping bunker) "Unolco" oil fuel system	29 Jun 1921		Claughton class		FALSE
79	C	21198		Details of 1500 gall. circular oil tank for 3000 gall. tender with sloping bunker	30 Jun 1921		Claughton class	"Unolco" oil fuel system	FALSE
79	C	21197		Details of oil level indicator for "Unolco" oil fuel system 3000 gall. tender sloping bunker	29 Jun 1921		Claughton class		FALSE
79	C	21196		Arrangement of steam pipes leading to oil fuel valves. "Unolco" oil fuel system	29 Jun 1921		Claughton class		FALSE
79	C	21195		Holes in footplate castings for "Unolco" oil fuel system	28 Jun 1921		Claughton class		FALSE
79	C	21194		Tank carrying brackets & cover for gauge float 1500 gall circular oil tank "Unolco" system	25 Jun 1921		3000 gall. Tender		FALSE
79	C	21193		Compression reducing valve on piston valve tube	26 Jun 1922		Prince on Wales class	Part copy. Patent No. 190052	FALSE
79	C	21193		Back pressure release valve on piston valve tube & conical lock nut valve spindle c/head	14 Jun 1921		Prince on Wales class		FALSE
79	C	21191		1500 gall circular oil tank. "Unolco" oil fuel system	18 Jun 1921		3000 gall. tender sloping bunker		FALSE
79	C	21190		Detail of dished plate to clear 1500 gall circular oil tank. "Unolco" oil fuel system	22 Jun 1921		3000 gall. tender sloping bunker. Claughton class		TRUE
79	C	21189		Valve carrying plate & bracket on right hand panel. "Unolco" oil fuel system	22 Jun 1921		Claughton class		FALSE
79	C	21188		Arrangement of ashpan for "Unolco" oil fuel system	22 Jun 1921		Claughton class		FALSE
79	C	21185		Boiler & smokebox handrails & pillars	10 May 1921		Ex WD 2-8-0 mineral engine		FALSE
79	C	21180		Arrangement for lubricating piston & spindle glands	24 May 1921		Ex WD 2-8-0 mineral engine		FALSE
79	C	21177		Arrangement of valve motion	25 May 1921		Ex WD 2-8-0 mineral engine		FALSE
79	C	21176		Arrangement & details of gear & pipes for Crewe "B" type mechanical lubricator	30 Apr 1921		Class G2 superheated		FALSE
79	C	21172		Alterations required to give 4 1/2" side play to radial truck	7 May 1921		Claughton class		FALSE
79	C	21168		Boiler seatings	9 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE
79	C	21167		Firebars, carriers & bearers	29 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE
79	C	21166		Boiler & firebox plates	12 Feb 1920		Ex WD 2-8-0 mineral engine		FALSE
79	C	21165		Longitudinal stay carrier	9 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE
79	C	21164		Boiler & firebox plates	9 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE
79	C	21163		Dome, boiler & firebox stays	9 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE
79	C	21162		Safety valve seating	9 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE
79	C	21161		Mud collector & blow off cock seating. Expansion angle & firehole ring	9 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE
79	C	21160		Boiler elevation	9 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
79	C	21158		Firebox bottom ring	29 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE
79	C	21157		Firebox	9 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE
79	C	21156		Firebox back	30 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE
79	C	21155		Smokebox tube plate	29 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE
79	C	21154		Superheater tubes	9 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE
79	C	21150		Boiler plan & end view	9 Jan 1920		Ex WD 2-8-0 mineral engine		FALSE
80	C	21259		Experimental regulator valve for large engines	7 Oct 1921		Large engines		FALSE
80	C	21289		Clips for spring hanger nuts	16 May 1922		Claughton, Prince of Wales, Experiment, George the Fifth & Precursor		FALSE
80	C	21250		General arrangement for locomotives fitted with D & M 9mm exhaust steam injector	23 Aug 1921		Prince of Wales		FALSE
80	C	21222		General arrangement of loco fitted with "Unolco" fuel system	20 July 1921		Claughton class		FALSE
80	C	21221		Arrangement of oil & steam pipe connections between engine & tender. "Unolco" system	20 Jul 1921		Claughton class		FALSE
80	C	21214		Arrangement & details of intermediate & back damper gears "Unolco" system	15 Jul 1921		Claughton class		FALSE
80	C	21206		Details of cullender & filling pipes on oil tank. "Unolco" system	11 Jul 1921		3000 gall tender with sloping bunker (Claughton class)		FALSE
80	C	21205		Details of steam heater, pipe connections & clips for engine & tender. "Unolco" system	1 Jul 1921		Claughton class		FALSE
80	C	21204		Details of unions & connections. "Unolco" system	1 Jul 1921		Claughton class		FALSE
80	C	21200		Details of oil control gear, oil valve brackets & starting up connection clip "Unolco" sys.	30 Jun 1921		Claughton class		FALSE
80	C	21298		Details of steam driving axle box with gun metal underbearing	10 May 1922		Claughton class		FALSE
80	C	21297		Alteration of cab, widows, water feed spindle, blower & damper rods (Memo 425)	13 Feb 1922		4'3" 6 w.c. saddle tank coal engine		FALSE
80	C	21290		Details of plug cock & connections for testing steam pressure gauges	25 Jan 1922		Equipment for testing engines at sheds		FALSE
80	C	21281		Arrangement for lubricating piston valves & cylinders (6 feeds)	2 Jan 1922		Prince of Wales class		FALSE
80	C	21280		Alteration to cylinder lubricator pipes	3 Jan 1922		6'6" 4 w.c. passenger engine & 6'0" 4 w.c. straight link & 5'6" 4 w.c. side tank engines		FALSE
80	C	21279		Arrangement & details of lubrication for axleboxes & hornblocks	6 Dec 1921		Prince of Wales class		FALSE
80	C	21274		Trailing oil box	19 Jun 1922		Prince of Wales class		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
80	C	21262		Driving & intermediate oil box	15 May 1922	20 Oct 1948	Prince of Wales class		FALSE
80	C	21254		Balancing weights for wheel balancing machine	18 Dec 1920		G2 class & 4'3" 8 w.c. shunting engine		FALSE
80	C	21239		Details of connections on oil filling & steam starting up pipes. "Unolco" system	23 Aug 1921		Cloughton class		FALSE
80	C	21238		Details of forgings	8 Jun 1921		Prince of Wales class fitted with D&M exhaust steam injector		FALSE
80	C	21237		Details of castings sheet 2	8 Jun 1921		Prince of Wales class fitted with D&M exhaust steam injector		FALSE
80	C	21234		Details for double set of bearing springs	18 Mar 1929		Cloughton class		FALSE
80	C	21232		Details of castings sheet 1	8 Jun 1921		Prince of Wales class fitted with D&M exhaust steam injector		FALSE
80	C	21231		Details of holes in flanges of D&M 9mm exhaust steam injector	8 Jun 1921		Prince of Wales class fitted with D&M exhaust steam injector		FALSE
80	C	21225		General arrangement of oil tank & fittings "Unolco" system	20 Jul 1921		3000 gall tender with sloping bunker. Cloughton class		FALSE
80	C	21224		Arrangement of firebricks in firebox & ashpan. "Unolco" system	20 Jul 1921		Cloughton class		FALSE
80	C	21203		Arrangement & detail of heater in oil tank. "Unolco" system	30 Jun 1921		3000 gall tender with sloping bunker. Cloughton class		FALSE
81	C	21378		Arrangement of rivetting in foundation ring for firebox	24 Jul 1922		George V class		FALSE
81	C	21399		Details of holes in frame plates	9 Nov 1922		Prince of Wales class with Walschaert valve motion		FALSE
81	C	21398		Details of side tanks	9 Nov 1922		4'3" 8 coupled side tank, 0-8-4 type		FALSE
81	C	21396		Arrangement and details of trailing sand gear	6 Nov 1922		4'3" 8 coupled side tank, 0-8-4 type		FALSE
81	C	21384		Details of brake gear for engines using two vacuum sacks	2 Oct 1922		Cloughton class		FALSE
81	C	21382		Detail of trailing tank and coal bunker	21 Oct 1922	12 Jul 1937	4'3" 8 coupled side tank, 0-8-4 type		FALSE
81	C	21381		Detail of tank stay bracket	17 Oct 1922		4'3" 8 coupled side tank, 0-8-4 type		FALSE
81	C	21380		General arrangement of lubrication for steam chest and cylinders	17 Oct 1922		George V class and Precursor class superheated with piston valves		FALSE
81	C	21379		Arrangement and details of fittings and pipes	2 Oct 1922		Cloughton class		FALSE
81	C	21374		Profiles of frame plates	2 Oct 1922		4'3" 8 coupled side tank, 0-8-4 type		FALSE
81	C	21373		Liner for cylinder valve face	16 Sep 1922		Precursor class and 12 other classes		FALSE
81	C	21370		General arrangement and details for fitting "Detroit" vacuum lubricator	11 Sep 1922		Prince of Wales class		FALSE
81	C	21369		Arrangement of lubricating for axleboxes and hornblocks	7 Sep 1922		5'0" 6 wheel coupled goods engine (19" cylinders)		FALSE
81	C	21365		Arrangement and details of "Superior" tube cleaners	30 Aug 1922	24 Jan 1927	4'3" 8 coupled coal engine, G1 class		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
81	C	21348		Diagram sheet of copper joints for cylinders and steam chest covers	26 Jun 1922		Standard fitting for many classes of passenger and goods engine		FALSE
81	C	21337		Arrangement of steps, handrails round bunker, and extension of footplate at trailing end	10 May 1922		6'0" 4 coupled side tank engine		FALSE
81	C	21336		Stiffening bracket under reversing screw bracket	10 May 1922		4'3" 8 wheel coupled coal engine, G1 and G2 classes		FALSE
81	C	21321		Arrangement of lubrication for axleboxes and hornblocks	11 Apr 1922		George V class		FALSE
81	C	21306		Shut off valve on pressure gauge steam pipe	8 Mar 1922		Standard fitting for many classes of passenger and goods engine		FALSE
82	C	21449		Details of reservoir and clips	8 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21447		General arrangement of injectors	28 Dec 1922		4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21446		Detail of trailing drawhook	4 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21445		Details of holes in frame plates, buffer plates, etc.	4 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21442		General arrangement & details for fitting 3 feed "Detroit" vacuum lubricator	22 Dec 1922		Prince of Wales class		FALSE
82	C	21441		General arrangement of motion	28 Dec 1922		Prince of Wales class with Walschaert valve motion		FALSE
82	C	21440		Detail of cab	20 Dec 1922		4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21439		Arrangement of smoke box	20 Dec 1922		4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21438		Details of lagging for boiler	20 Dec 1922		6'6" 4 coupled passenger engine "Joy's" valve motion - George V and Precursor		FALSE
82	C	21437		Spring link brackets	10 Jan 1921		Ex WD 2-8-0 mineral engine		FALSE
82	C	21428		Details of covering plates	16 Dec 1922		4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21425		Details of lagging for boiler	11 Dec 1922		4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21423		Details of sand gear for leading and driving wheels	6 Dec 1922		4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21420		Details of forgings for reversing gear	6 Dec 1922	26 Oct 1937	4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21419		Details of castings for reversing gear	29 Nov 1922	4 Jan 1938	4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21416		Alteration to drawbar gear (front end)	6 Nov 1922	25 Nov 1926	1800 gallon tender		FALSE
82	C	21415		Detail of covering plate	16 Dec 1922		Prince of Wales class with Walschaert valve motion		FALSE
82	C	21411		Details of forgings for reversing gear	24 Nov 1922	4 Jan 1938	4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21410		General arrangement and detail of cylinder cock gear	18 Nov 1922		4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21408		Details of tank and footplate carrying bracket	16 Nov 1922		4'3" 8 coupled side tank, 0-8-4 type		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
82	C	21407		Detail of frame cross stays	16 Nov 1922	25 Oct 1937	4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21403		Arrangement and details of feed water gear	6 Nov 1922		4'3" 8 coupled side tank, 0-8-4 type		FALSE
82	C	21402		Arrangement for increasing brake power on engine	21 Nov 1922		Cloughton class		FALSE
83	C	21681		Details and position of engine number plate on smokebox door	14 Aug 1923		Standard fitting		FALSE
83	C	21680		Alteration required to suit Midland division loading gauge	30 Jul 1923		6'0" 4 coupled side tank engine		FALSE
83	C	21678		Details of alterations required to marine pattern connecting rod	8 Aug 1923		Division "A" engines 4-6-0 & 4-6-2 fitted with "Joy's" motion	with 2 5/8 in. dia. Gudgeon pin and 1 5/8 in. dia. jack link pin	FALSE
83	C	21677		Details of brasses for a marine pattern connecting rod	10 Aug 1923	28 May 1943	Division "A" engines 4-6-0 & 4-6-2 fitted with "Joy's" motion		FALSE
83	C	21675		Diagram of boiler	14 Aug 1923		Wirral Railway locomotive no. 8		FALSE
83	C	21668		Diagram of vacuum exhaust pipe - particulars of piecing-up pipes when required	16 July 1923		Many class of passenger and goods locomotive		FALSE
83	C	21582		Alteration to motion plate to give more clearance for connecting rod	4 Dec 1922		Prince of Wales, Experiment, 5'6" 6 coupled tank and 5'0" 6 coupled 19" cylinders engines		FALSE
83	C	21581		Alteration required to suit Midland Division loading gauge	24 May 1923		5'0" 6 coupled 19" cylinders engine		FALSE
83	C	21575		Lubricating for driving and intermediate axles	24 Nov 1924	3 Mar 1942	4'3" 8 coupled coal engine		FALSE
83	C	21574		Application of Lion packing to high pressure piston rods and valve spindles	21 Mar 1923		7'0" and 4'3" 4 cylinder compound engines		FALSE
83	C	21550		General arrangement of drop fire grate	16 Apr 1923		Cloughton class		FALSE
83	C	21536		Diagrams of reversing rods	12 Mar 1923		8 classes of engine fitted with "Joy's" valve gear		FALSE
83	C	21513		Oil box for radial truck axle box, reference letters V3 and V4	14 Mar 1923		Standard fitting		FALSE
83	C	21512		General arrangement of brake gear	10 Mar 1923	13 Mar 1940	4'3" 8 coupled side tank, 0-8-4 type		FALSE
83	C	21494		Cast iron base plate for "Ross" type safety valve	3 Mar 1923		Division "A" engines	Paper copy in Crewe Unnumbered series	FALSE
83	C	21473		General arrangement of fittings for "Detroit" 3 feed vacuum lubricator	5 Feb 1923		4'3" 8 coupled side tank, 0-8-4 type		FALSE
83	C	21472		Details of lamp brackets	5 Feb 1923		4'3" 8 coupled side tank, 0-8-4 type		FALSE
83	C	21470		Details of foot boards	9 Feb 1923	4 Jan 1938	4'3" 8 coupled side tank, 0-8-4 type		FALSE
83	C	21468		General arrangement of auto vacuum brake pipes and carriage heating apparatus (end views)	5 Feb 1923		4'3" 8 coupled side tank, 0-8-4 type		FALSE
83	C	21467		Details of piston valves, liners, spindles and crossheads	30 Jan 1923		Engines with 20 1/2 in. diameter cyls. (superheated) fitted with "Horwich" type of piston valves	5 engines of each of Prince of Wales, George V and G1 or G2 classes	FALSE
83	C	21463		Details of gear for mechanical lubricators of axles ("Wakefields")	30 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
83	C	21462		General arrangement of gear for mechanical lubrication of axles ("Wakefields")	30 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type		FALSE
83	C	21460		Details of forgings for brake gear	23 Jan 1923	18 Mar 1940	4'3" 8 coupled side tank, 0-8-4 type		FALSE
83	C	21457		Details of handrails and vacuum pipes	17 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type		FALSE
83	C	21456		Details of handrails and steps at back of bunker	17 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type		FALSE
83	C	21454		Details of castings for brake gear	11 Jan 1923	1 Nov 1943	4'3" 8 coupled side tank, 0-8-4 type		FALSE
83	C	21451		General arrangement of auto vacuum brake pipes and carriage heating apparatus	9 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type		FALSE
83	C	21450		Details of piston valves, liners, spindles and crossheads	10 Jan 1923		Cloughton class	5 engines fitted for trial	FALSE
84	C	21848		Details of steel and copper flanged plates	4 Dec 1923		4'3" 8 wheel coupled coal engine, classes G1, G2 and 0-8-4 tank		FALSE
84	C	21847		Seating block on Belpaire boiler for whistle stand	4 Dec 1923		4'3" 8 wheel coupled coal engine, classes G1, G2 and 0-8-4 tank		FALSE
84	C	21846		Details of foundation ring for Belpaire boiler	4 Dec 1923		4'3" 8 wheel coupled coal engine, classes G1, G2 and 0-8-4 tank		FALSE
84	C	21841		Detail of frame for number plates on tenders and detail of spring	17 Dec 1923		Tender		FALSE
84	C	21840		Details of boiler, Belpaire type	19 Oct 1923	10 Mar 1939	5'0" 6 coupled goods engine - 18" cylinders		FALSE
84	C	21835		Details of marine pattern connecting rod for engines fitted with Walschaert's motion	27 Dec 1923	1 May 1935	Prince of Wales class		FALSE
84	C	21834		Details of boiler and firebox stays for Belpaire type boilers, 5'2" diameter	18 Dec 1923	25 Jul 1935	Prince of Wales, George V and 4'3" 8 wheel coupled classes	Also Experiment class and 5'0" 19" goods engine	FALSE
84	C	21832		Cover for filling hole in tank	27 Nov 1923		4'3" 4 wheel coupled shunting engine		FALSE
84	C	21829		Detail of outer firebox and back strengthening stays & longitudinal stay steadying bracket for Belpaire type of boiler	17 Jan 1924	16 Mar 1939	Prince of Wales class	Also for George V and Experiment classes and 4'3" 8 coupled coal (superheated) and 5'0" 6 coupled goods engines	FALSE
84	C	21828		Detail of intermediate and trailing axleboxes	12 Dec 1923	29 Nov 1944	Prince of Wales class	Also for Prince of Wales Experiment classes and 5'0" 6 coupled goods engines (19" and 26" cylinders)	FALSE
84	C	21825		Detail of compression reducing valve - 3 1/2" bore circular lift valve	24 Nov 1924		Prince of Wales class		FALSE
84	C	21809		Details of axles	12 Nov 1923		Wirral Railway locomotive nos. 3 and 5		FALSE
84	C	21808		Details of standard firehole for locomotives fitted with Belpaire boiler	22 Nov 1923		Standard fitting		FALSE
84	C	21807		Details of firebox for Belpaire boiler	24 Nov 1923	16 Mar 1939	Prince of Wales class		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
84	C	21806		Belpaire type boilers - safety valve seating and casing for "Ross" type valves	14 Nov 1923		Prince of Wales, George V, Experiment, G1 and G2 classes and 5'0" 6 coupled 19" goods engine		FALSE
84	C	21805		Belpaire type boilers - detail of ashpan	25 Oct 1923	16 Jul 1934	Prince of Wales and Experiment classes and 5'0" 6 coupled 19" goods engine		FALSE
84	C	21804		Details of steel and copper flanged plates for Belpaire type of boiler	7 Nov 1923		Prince of Wales and Experiment classes		FALSE
84	C	21798		Seating block on Belpaire boiler for whistle stand	10 Nov 1923		Prince of Wales and Experiment classes and 5'0" 6 coupled 19" goods engine		FALSE
84	C	21797		Detail of foundation ring for Belpaire boiler	10 Nov 1923		Prince of Wales and Experiment classes and 5'0" 6 coupled 19" goods engine		FALSE
84	C	21790		Details of boiler smoke tubes	27 Dec 1923		LMS Division A engines - many classes of goods and passenger engines		FALSE
84	C	21774		Details of piston valves and liners (valves 31/32" lap)	1 Nov 1923		Prince of Wales class fitted with Walschaert's valve motion		FALSE
84	C	21771		Details of jack link for marine type connecting rods for Division A engines 4-6-0 & 4-6-2 types fitted with Joy's motion	23 Jul 1923		LMS Division A engines		FALSE
84	C	21755		Details of holes in frame plates	15 Oct 1923	19 Dec 1946	Prince of Wales class fitted with Walschaert's valve motion		FALSE
84	C	21708		General arrangement of carriage heating apparatus	27 Sep 1923		G1 and G2 classes (superheated)		FALSE
84	C	21707		Details of cast iron brackets, brake shaft, reservoir, etc. for 21" vacuum sack	3 Sep 1923		5'0" 6 wheel coupled saddle tank engine for DN&GR (?Dublin, Newry and Greenore?)		FALSE
84	C	21706		Arrangement of 21" vacuum sack (boiler ring)	3 Sep 1923		5'0" 6 wheel coupled saddle tank engine for DN&GR (?Dublin, Newry and Greenore?)		FALSE
85	C	21864		Arrangement of injector delivery pipes and steam pipes for whistle stand and blower	17 Jan 1924	28 May 1942	Prince of Wales, George V, Experiment and G2 classes and 5'0" 6 coupled 19" goods engine		FALSE
85	C	21858		Detail of foundation ring for Belpaire boiler	22 Nov 1923		George V class		FALSE
85	C	21853		Detail of steel and copper flanged for Belpaire boiler	3 Jan 1924		George V class		FALSE
85	C	21891		General arrangement of 3 feed "Detroit" vacuum lubricator	12 Feb 1924		Prince of Wales class fitted with Belpaire boiler		FALSE
85	C	21890		Details of fittings for 3 feed "Detroit" vacuum lubricator	12 Feb 1924		Prince of Wales class fitted with Belpaire boiler		FALSE
85	C	21887		Detail of strengthening plate	12 Feb 1924		Engine 93 - G1 class engine (superheated)		FALSE
85	C	21886		Details of firebox stays and carrying angles	12 Feb 1924		4'3" 6 wheel coupled coal engine and 5'0" 6 wheel coupled coal engine (special DX)	Also 5'6" 4 wheel coupled side tank and 6'0" & 6'6" 4 coupled passenger (straight link) boilers	TRUE
85	C	21883		General arrangement and details of damper gear etc.	15 Jan 1924		Prince of Wales class fitted with Belpaire boiler	Also used for Experiment class and 19" goods engines with Belpaire boilers	FALSE
85	C	21882		Details of cab windows	17 Jan 1924	18 Jun 1957	Prince of Wales class fitted with Belpaire boiler	Also used for George V, Experiment classes and 4'3" 8 coupled coal and 5'0" 6 coupled goods (19" x 26" cyls.)	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
85	C	21879		Details of standard washout and fusible plugs	27 Feb 1925		Many classes of passenger and goods engine		FALSE
85	C	21878		Details of boiler and firebox stays	17 Jan 1924		5'0" 6 wheel coupled goods engine (18" cylinders) with Belpaire firebox		FALSE
85	C	21877		Details of strengthening plates, angles etc. for boiler	30 Jan 1924	28 Mar 1939	5'0" 6 wheel coupled goods engine (18" cylinders) with Belpaire firebox		FALSE
85	C	21866		Arrangement and detail of baffle plate in dome	17 Jan 1924		Prince of Wales, George V, Experiment and G2 classes and 5'0" 6 coupled 19" goods engine		FALSE
85	C	21865		Detail of lagging for boiler	15 Jan 1924		Prince of Wales class fitted with Belpaire boiler	Also Experiment class	FALSE
85	C	21860		Details of stiffening plates on frame over driving and intermediate axles	3 Jan 1924		5'6" 6 coupled side tank engine		FALSE
85	C	21859		Slide valve - experimental reference no. 325	16 Oct 1923		Precursor class also after December 1923 standard for 12 other classes		FALSE
85	C	21857		Detail of foundation ring for Belpaire boiler	3 Jan 1924		5'0" 6 wheel coupled goods engine (18" cylinders) fitted with Belpaire boiler	Also used for 7 other classes	FALSE
85	C	21856		Details of flanged plates for boilers	5 Jan 1924		5'0" 6 wheel coupled goods engine (18" cylinders) fitted with Belpaire boiler		FALSE
85	C	21855		Seating plate for whistle stand	3 Jan 1924		5'0" 6 wheel coupled goods engine (18" cylinders) fitted with Belpaire boiler		FALSE
85	C	21850		Detail of angle iron bracket for ash-pan casting	18 Dec 1924		Cloughton class		FALSE
85	C	21895		Details of cab and panel plates	31 Dec 1923		6'0" 6 coupled passenger engines also Cloughton class and 5'0" 19" goods engine		FALSE
85	C	21894		Details of fittings for regulator valve	13 Nov 1923		LMS Division A engines with 5'2" diameter Belpaire boilers	Used for George V, Experiment classes and 4'3" 8 coupled coal and 5'0" 6 coupled goods (19" x 26" cyls.)	FALSE
85	C	21892		General arrangement of vacuum pipes	20 Feb 1924		Prince of Wales class fitted with Belpaire boiler		FALSE
86	C	22224		Detail of ashpan	4 Jun 1924	16 Jul 1934	G1 & G2 fitted with Belpaire boiler		FALSE
86	C	22009		Radial truck axlebox with reduced bearing surface for curved journals	6 May 1924	28 Nov 1944	Cloughton class	This axlebox used for 10 other classes with curved journals	FALSE
86	C	22008		Radial truck axlebox with reduced bearing surface for straight journal	6 May 1924	28 Nov 1944	Cloughton class	This axlebox used for 10 other classes with straight journals	FALSE
86	C	21954		Detail of castings & forgings for vacuum brake	17 May 1924		5'0" six wc goods engine with 19" cylinders		FALSE
86	C	21953		Details of cab & panel plates	29 April 1924		G1 & G2 fitted with Belpaire boiler		FALSE
86	C	21948		Arrangement & details for fitting Midland Division type of water gauges	25 April 1924		Cloughton class		FALSE
86	C	21951		Arrangement of carriage heating apparatus	26 Apr 1924		George the Fifth class with Belpaire boiler		FALSE
86	C	21941		Safety valve seating & casing for Ross type valves	28 Feb 1924		5'0" six wc goods engine with 18" cylinders fitted with Belpaire boiler		FALSE
86	C	21940		Details of cab & panel plates	7 Apr 1924		5'0" six wc goods engine with 18" cylinders fitted with Belpaire boiler		FALSE
86	C	21937		General arrangement of auto vacuum brake	28 Mar 1924		George the Fifth class with Belpaire boiler		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
86	C	21933		Copper firebox	4 Apr 1924		Wolverton steam tram No. 2		FALSE
86	C	21928		Details of lagging for boiler	1 Apr 1924		5'0" six wc goods engine with 18" cylinders fitted with Belpaire boiler		FALSE
86	C	21924		Details of cab windows	26 Mar 1924		5'0" six wc goods engine with 18" cylinders fitted with Belpaire boiler		FALSE
86	C	21921		Arrangement of firebox roofing bars & stays	12 Feb 1924		For 9 classes fitted with 4'2" diameter boilers		FALSE
86	C	21920		General arrangement of vacuum brake gear with increased brake power	7 Apr 1924		G1 & G2 fitted with piston valves		FALSE
86	C	21918		Detail of ashpan	14 Mar 1924		George the Fifth class with Belpaire boiler		FALSE
86	C	21916		Arrangement of injector delivery pipes & steam pipes for whistle stand & blower	15 Mar 1924		Special DX 5'0" six wc goods	Also 4'3" six wc coal engines, 6'0" & 6'6" four wc st. link pass engines & 5'6" four wc side tank	FALSE
86	C	21912		Diagram of studs required for outside boiler mountings	10 Mar 1924		LMS Belpaire type boilers 5'2" dia		FALSE
86	C	21910		Detail of lagging for boiler	26 Mar 1924		G1 & G2 fitted with Belpaire boiler		FALSE
86	C	21908		Detail of lagging for boiler	29 Feb 1924		George the Fifth class with Belpaire boiler		FALSE
86	C	21907		Detail of covering plates for panels	8 Mar 1924		Prince of Wales with Belpaire boiler, Geo.V, Precursor, Experiment & 5'0" six wc goods 19" cyls.		FALSE
86	C	21904		Details of cab & panel plates	29 Feb 1924		George the Fifth class with Belpaire boiler		FALSE
86	C	21902		Details of boiler mountings for Belpaire boiler	8 Mar 1924		10 classes of locomotive		FALSE
86	C	21901		Detail of whistle stand	20 Feb 1924		Prince of Wales class & 7 other classes fitted with Belpaire boiler		FALSE
87	C	22394		Details of brake shaft (steel casting)	21 Oct 1924		3000 gall. tender (without sloping bunker) fitted with vacuum sack & reservoir		FALSE
87	C	22393		Details of steam pipes	7 Oct 1924		Experiment class fitted with superheater & flat valves		FALSE
87	C	22386		Details of intermediate & trailing axleboxes	8 Sep 1924	28 Nov 1944	5'6" six wc side tank engine		FALSE
87	C	22385		Cast iron making up block for radial truck axlebox keep	6 Oct 1924		George Fifth, Prince of Wales, 19" goods (for trial on 5 of each class)	Midland type underfeed lubrication	FALSE
87	C	22384		Radial truck axlebox oil pad	6 Oct 1924		George Fifth, Prince of Wales, 19" goods (for trial on 5 of each class)	Midland type underfeed lubrication	FALSE
87	C	22383		Dust shield for radial truck axlebox	6 Oct 1924	4 Feb 1957	George Fifth, Prince of Wales, 19" goods (for trial on 5 of each class)	Midland type underfeed lubrication	FALSE
87	C	22380		General arrangement of auto vacuum brake	28 Jul 1924		5'0" six wc goods (19" cyls.)		FALSE
87	C	22379		Detail of cover plate over reversing screw	18 Sep 1924		Prince of Wales, George Fifth, Experiment, 19" goods (all fitted with Belpaire boiler)		FALSE
87	C	22378		General arrangement of carriage heating apparatus	9 Sep 1924		G1 & G2 classes, superheated fitted with Belpaire boiler & 20 1/2" cylinders		FALSE
87	C	22370		General arrangement & details of spark arrester	14 Aug 1924		4'3" eight wc side tank shunting engine (0-8-2)		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
87	C	22365		New standard dome for locomotives	19 Aug 1924		16 classes of locomotive		FALSE
87	C	22360		Alteration required to suit Midland Division loading gauge	14 Aug 1924		7'0" four wc Renown class		FALSE
87	C	22359		Details of 4 1/2" pipes for exhaust steam injectors	12 Aug 1924		Cloughton & Prince of Wales classes		FALSE
87	C	22358		General arrangement & details for fitting 3 feed "Detroit" vacuum lubricator	12 Aug 1824		George the Fifth class		FALSE
87	C	22357		Arrangement of carriage heating apparatus	9 Jul 1924		5'0" six wc goods engine fitted with Belpaire boiler & 18" cylinders		FALSE
87	C	22353		Cap for left hand reversing shaft bracket	6 Aug 1924		16 classes of locomotives fitted with Joy's valve gear		FALSE
87	C	22351		Arrangement for fitting Midland Division water gauge	31 Jul 1924		George the Fifth, Precursor & 6'0" four wc side tank		FALSE
87	C	22342		General arrangement of vacuum brake gear (two sacks)	22 Jul 1924		G1 & G2 fitted with Belpaire boiler		FALSE
87	C	22341		General arrangement of vacuum brake gear (two sacks)	22 Jul 1924		G1 & G2 fitted with Belpaire boiler		FALSE
87	C	22333		Arrangement & details for fitting Midland Division type of water gauge	14 Jul 1924		Prince of Wales, Experiment, 19" goods,G,D,G1,G2, compound F, 0-8-2 & 0-8-4 side tank		FALSE
87	C	22327		Diagram sheet of standard lamp brackets	2 Jul 1924		Standard fitting		FALSE
87	C	22314		Alteration to driving axlebox & big end bearing	2 Jul 1924		G2 class with solid forged crank axle		FALSE
87	C	22311		Arrangement of vertical sack (roller ring)	2 Jul 1924		4'3" six wc special tank engine		FALSE
87	C	22310		Details of brake shaft, vacuum reservoir & slings, brackets etc:	2 Jul 1924		4'3" six wc special tank engine		FALSE
87	C	22309		Arrangement of 21" vertical sack (roller ring)	2 Jul 1924		4'3" six wc special tank engine		FALSE
87	C	22308		Details of brake shaft, vacuum reservoir slings & left hand bracket	2 Jul 1924		4'3" six wc special tank engine		FALSE
88	C	22414		Details of fittings for 3-feed 'Eureka' lubricator	9 Sep 1924		Superheated Experiment class with flat valves		FALSE
88	C	22495		Details of holes in flanges: Davies & Metcalfe exhaust steam injector & grease separator	19 Feb 1925		Cloughton & Prince of Wales		FALSE
88	C	22493		General arrangement of vacuum brake without air pump	5 Feb 1925		4'3" eight wc coal engines of G & D classes		FALSE
88	C	22492		General arrangement of lubrication for steam chest & cylinders	7 Feb 1925		5'6" six wc side tank		FALSE
88	C	22489		Details of additional work for strengthened brake gear	5 Feb 1925		4'3" four wc shunting engine		FALSE
88	C	22486		Details of correct & incorrect way of fitting up big end brasses, strap & cotters	31 Dec 1924		General drawing		FALSE
88	C	22481		Details of forgings	9 Feb 1925		Prince of Wales class (with exhaust injector 1924 type)		FALSE
88	C	22477		Details of castings sheet No. 2	30 Jan 1925		Prince of Wales class (with exhaust injector 1924 type)		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
88	C	22476		Details of castings sheet No. 1	30 Jan 1925		Prince of Wales class (with exhaust injector 1924 type)		FALSE
88	C	22474		Arr.of exhaust steam injector (1924 type), details of exhaust steam pipes&alteration to ashpan	22 Jan 1925		Cloughton class		FALSE
88	C	22466		Details of forgings for exhaust steam injector (1924 type)	29 Dec 1924		Cloughton class		FALSE
88	C	22465		Details of castings for exhaust steam injectors (1924 type)	29 Dec 1924	19 Dec 1934	Cloughton class		FALSE
88	C	22463		Whistle stand for engines fitted with Parry's blower (round top boilers)	29 Dec 1924		Prince of Wales,Experiment,George the Fifth,Precursor (2 engines from each class)		FALSE
88	C	22440		General arrangement of steam brake gear (with increased brake power)	6 Dec 1924		4'3" four wc shunting engine		FALSE
88	C	22436		Detail of brake shaft brackets & pipe clips	4 Dec 1924		G1 & G2 classes fitted with vacuum brake (2 sacks)		FALSE
88	C	22418		Alteration required to suit Midland Division loading gauge	15 Nov 1924		Cloughton class		FALSE
88	C	22417		Details of cab window frames to suit Midland loading gauge	20 Nov 1924		Cloughton class		FALSE
88	C	22415		General arrangement of 3-feed 'Eureka' lubricator	9 Sep 1924		Superheated Experiment class fitted with flat valves		FALSE
89	C	23746		Details of steam pipes	5 Jan 1926		Experiment class fitted with Belpaire boiler		FALSE
89	C	23745		Details of steam pipes	5 Jan 1926		5'0" 6 coupled 19" goods engine fitted with Belpaire boiler		FALSE
89	C	23744		Details of steam pipes	5 Jan 1926		5'0" 6 coupled 19" goods engine fitted with Belpaire boiler		FALSE
89	C	23743		Details of steam pipes	5 Jan 1926		Experiment class fitted with Belpaire boiler		FALSE
89	C	23706		Details of cylinder cock gear	24 Jan 1926		4'3" four wc shunting engine with increased brake power		FALSE
89	C	23617		Patch plate at driving axle extended 4" to suit fractured frames	23 Dec 1925		Prince of Wales class		FALSE
89	C	22917		Details of leading and intermediate axle boxes	21 Sep 1925		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
89	C	22916		Details of driving and trailing axle boxes	9 Sep 1925		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
89	C	22800		General arrangement of vacuum brake with increased brake power	12 Aug 1925		Cloughton class		FALSE
89	C	22799		Additional details of brake gear required for engines fitted with increased brake power (2 vacuum sacks)	12 Aug 1925		Cloughton class		FALSE
89	C	22798		Sectional view of vacuum brake arrangement with increased brake power	12 Aug 1925		Cloughton class		FALSE
89	C	22797		Arrangement of leading vacuum sack for engines fitted with increased brake power	12 Aug 1925		Cloughton class		FALSE
89	C	22684		Arrangement of lubricator pipe in boiler from footplate to smokebox tubeplate	1 Jul 1925		5'6" 4 coupled side tank passenger engine	Also used for 6'6" and 6'0" 4 coupled (straight link) passenger engines	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
89	C	22562		Details of brake gear for radial truck	7 May 1925		5'0" 6 wheel coupled coal engine 19" x 26" cylinders		FALSE
89	C	22540		Details of steam pipes and flanges for regulator	8 May 1925		5'6" 4 coupled side tank, 6'0" and 6'6" 4 coupled straight link passenger engines		FALSE
89	C	22539		Details of stand pipe bracket in dome	8 Apr 1925		Many classes of passenger and goods engine		FALSE
89	C	22530		Arrangement and details of steam pipe for blower and lubricator pipe in boiler	24 Apr 1925		Experiment class with Belpaire boiler	Also used for 5'0" 6 coupled 19" goods engine	FALSE
89	C	22529		General arrangement of boiler (Belpaire type)	30 Jan 1925	7 Sep 1936	Experiment class with Belpaire boiler		FALSE
89	C	22527		General arrangement of boiler (Belpaire type)	22 Jan 1925	15 Mar 1939	5'0" 6 coupled goods engine (19" cylinders)		FALSE
89	C	22525		Details of outer firebox side strengthening plates and holding down angles for Belpaire boilers 5'2" diameter	19 Feb 1925		Several classes, including George V and 5'0" 6 coupled goods engine (19" cylinders)		FALSE
89	C	22524		Detail of lagging for boiler	22 Jan 1925		5'0" 6 coupled goods engine (19" cylinders) fitted with Belpaire type boiler		FALSE
89	C	22520		Boiler	17 Nov 1923	7 Sep 1936	5'0" 6 coupled goods special DX engine	Also used for 4'3" 6 coupled coal, side tank coal and saddle tank coal engines	FALSE
89	C	22519		Details required for vacuum brake air and steam valves for use without air pump	15 Nov 1943		4'3" 8 coupled coal engines G1 and G2 classes fitted with Belpaire boiler	Date 1943 is correct	FALSE
89	C	22507		Arrangement and details for fitting Midland Division type of water gauge	18 Feb 1925		5'6" 6 coupled side tank		FALSE
89	C	22505		Arrangement of exhaust steam injector (1924 type)	3 Mar 1925		Prince of Wales class		FALSE
90	C	23818		Diagram of copper tubeplates for locomotive fireboxes - Sheet No. 3	4 Dec 1925		10 classes of goods and coal engine		FALSE
90	C	23817		Diagram of copper tubeplates for locomotive fireboxes - Sheet No. 2	23 Nov 1925		21 classes of goods and coal engine		FALSE
90	C	23816		Diagram of copper tubeplates for locomotive fireboxes - Sheet No. 1	2 Sep 1925		12 classes of passenger engine		FALSE
90	C	24678		Arrangement of firebox arch - Midland type	14 Feb 1929		Cloughton class 5'2" diameter boiler		FALSE
90	C	24633		Details of additional castings for air and steam valves	29 Nov 1926		5'0" 6 coupled goods engine (19" cylinders) fitted with Belpaire type boiler and steam brake		FALSE
90	C	24391		L.P. piston tail rod cover and bush	14 Sep 1926		4-6-2 and 2-8-2 superheater compound engines		FALSE
90	C	24308		Arrangement of driving gear in carriages	30 Jul 1926		Motor trains		FALSE
90	C	24307		Details for regulator gear in carriages	30 Jul 1926		Standard 57'0" carriages for motor trains		FALSE
90	C	24306		Diagram of rodding under carriage	30 Jul 1926		Standard 57'0" carriages for motor trains		FALSE
90	C	24305		Arrangement of driving end and detail of bracket for same	30 Jul 1926		Standard 57'0" carriages for motor trains		FALSE
90	C	24304		Arrangement of end without lever and detail of bracket	30 Jul 1926		Standard 57'0" carriages for motor trains		FALSE
90	C	24296		Arrangement of lubricating pipes from "Detroit" 4 feed lubricator	4 Oct 1932		Cloughton class fitted with Caprotti valve gear		FALSE
90	C	24295		Detail of frame and covering plates	18 Dec 1930		Cloughton class fitted with Caprotti valve gear		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
90	C	24255		Metallic packing for L.P. cylinders	6 Jul 1926		4-6-2 and 2-8-2 compound engines		FALSE
90	C	24254		Back L.P. cylinder end, stuffing box and gland	6 Jul 1926		4-6-2 and 2-8-2 compound engines		FALSE
90	C	24236		By-pass valve for L.P. cylinder	2 Jul 1926		4-6-2 and 2-8-2 superheated compound engines		FALSE
90	C	24235		By-pass valve pipe and casing for H.P. cylinder	2 Jul 1926		4-6-2 and 2-8-2 superheated compound engines		FALSE
90	C	24234		H.P. back cylinder cover and gland	14 Sep 1926		4-6-2 and 2-8-2 superheated compound engines		FALSE
90	C	24233		H.P. piston and front cylinder cover	2 Jul 1926		4-6-2 and 2-8-2 superheated compound engines		FALSE
90	C	24201		Detail of felt washers for gears	7 Nov 1930		Cloughton class fitted with 5'2" diameter boiler and Caprotti valve gear		FALSE
90	C	24189		Detail of steam pipes in smokebox	none		Cloughton class fitted with Caprotti valve gear		FALSE
90	C	24179		Reversing gear, arrangement at leading end	21 Nov 1930		Cloughton class fitted with Caprotti valve gear		FALSE
90	C	23969		Detail of main drive shaft bearing	7 Nov 1930		Cloughton class fitted with Caprotti valve gear		FALSE
90	C	23935		L.P. piston and front cover	11 May 1926		4-6-2 and 2-8-2 superheated compound engines		FALSE
90	C	24699		General arrangement of auto vacuum brake gear	12 Jan 1927		5'0" 6 coupled 19" goods engine fitted with Belpaire boiler and steam brake		FALSE
91	C	24711	PC	Alteration to position of "Detroit" 3 feed lubricator	none		4'3" 8 coupled coal engine G1 and G2 classes		FALSE
91	C	24748		Details of fittings for car heating and vacuum brake	6 Apr 1927		Cloughton and Prince of Wales classes fitted with M.M. tenders		FALSE
91	C	24819		Details of oval pattern firehole	10 Jun 1927		Cloughton class fitted with Belpaire boiler 5'5" diameter		FALSE
91	C	24818		Details of steel and copper flanged plates	5 Apr 1927		Cloughton class fitted with Belpaire boiler 5'5" diameter		FALSE
91	C	24785		Details of lamp brackets	26 Mar 1927		Cloughton and Prince of Wales classes with M.M. tenders		FALSE
91	C	24784		Details of central buffing gear	26 Mar 1927		Cloughton and Prince of Wales classes with M.M. tenders		FALSE
91	C	24783		Arrangement of water pickup	26 Mar 1927		Cloughton and Prince of Wales classes with M.M. tenders		FALSE
91	C	24777		Patch plate at intermediate axle	18 Dec 1930		Prince of Wales class		FALSE
91	C	24769		Castings for brake gear	15 Mar 1927		Cloughton and Prince of Wales classes with M.M. tenders		FALSE
91	C	24768		Arrangement and details for coupling up M.M. tenders	12 Feb 1927		Cloughton and Prince of Wales classes with M.M. tenders		FALSE
91	C	24767		Details for water pickup	15 Mar 1927		Cloughton and Prince of Wales classes with M.M. tenders		FALSE
91	C	24766		Details of castings for water pickup	15 Mar 1927		Cloughton and Prince of Wales classes with M.M. tenders		FALSE
91	C	24711		General arrangement of "Detroit" lubricator	17 Dec 1918	19 Nov 1937	4'3" 8 coupled coal engine G1 and G2 classes		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
91	C	24990		Boiler arrangement	26 May 1927	17 Mar 1942	Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
91	C	24960		Arrangement and details of feed water gear	7 May 1927		Claughton and Prince of Wales classes fitted with M.M. tenders		FALSE
91	C	24927		Arrangement and details of vacuum brake pipes and fittings	4 May 1927		Tenders for 4'8" 8 coupled Consolidation M.M. engines		FALSE
91	C	24926		Particulars for painting tenders	4 May 1927		M.M. tenders redesigned for Claughton and Prince of Wales classes	2353	FALSE
91	C	24841		Alterations and additions to tender tank	11 May 1927		Claughton and Prince of Wales classes with M.M. tenders		FALSE
91	C	24840		Arrangement of vacuum brake and car heating pipes on boiler	14 Apr 1927		Claughton and Prince of Wales classes fitted with M.M. tenders		FALSE
91	C	24839		Arrangement of vacuum brake gear	14 Apr 1927		Claughton and Prince of Wales classes fitted with M.M. tenders		FALSE
91	C	24836		Oiling arrangement for intermediate axleboxes on engines fitted with patch plates	22 Mar 1927		Prince of Wales class		FALSE
91	C	24834		Arrangement and details of vacuum reservoir	6 Apr 1927		Claughton and Prince of Wales classes with M.M. tenders		FALSE
91	C	24833		Details of forgings for brake gear	7 Apr 1927		Claughton and Prince of Wales classes with M.M. tenders		FALSE
91	C	24820		Arrangement and details of gang way doors	14 Apr 1927		Claughton class with M.M. tenders		FALSE
92	C	25067		Detail of foundation ring	20 Jul 1927		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
92	C	25879		2000 gallon locomotive tender	20 Aug 1900		2000 gallon tender	Has water scoop	FALSE
92	C	25878		Seating for safety valve	15 Nov 1927		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
92	C	25327		Details of large and small smoke tubes and ferrules	8 Jul 1927		2-8-0 M.M. engines fitted with copper fireboxes		FALSE
92	C	25287		General arrangement of dome	8 Feb 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
92	C	25137		Detail of tender capacity plate	16 Jun 1927		Claughton and Prince of Wales classes fitted with M.M. tenders		FALSE
92	C	25784		Arrangement of Derby type steam blower	3 Oct 1927		Claughton class		FALSE
92	C	25664		Arrangement of Derby type steam blower	19 Sep 1927		Prince of Wales class		FALSE
92	C	25661		Diagram shewing altered injector	30 Aug 1927		Midland 0-6-0 freight tank engines		FALSE
92	C	25660		Diagram shewing alteration to exhaust steam injector overflow pipe	30 Aug 1927		Prince of Wales class		FALSE
92	C	25524	PC	Ordering sizes for superheater and boiler tubes	none		Royal Scot class	Part copy of Derby drawing 27-10727	FALSE
92	C	25521		Details for Midland type water scoop	3 Aug 1927		3000 gallon tender, Western A Division		FALSE
92	C	25518		Arrangement of Midland type water scoop	23 Aug 1927		3000 gallon tender, Western A Division		FALSE
92	C	25520		Details for Midland type water scoop	23 Aug 1927		3000 gallon tender, Western A Division		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
92	C	25519		Detail of delivery pipe to suit Midland type water scoop	23 Aug 1927		3000 gallon tender, Western A Division		FALSE
92	C	25517		Drilling arrangements for smokebox and firebox tube plates	26 Aug 1927	15 May 1942	Cloughton class fitted with Belpaire boiler 5'5" diameter		FALSE
92	C	25500		Diagram of superheater tubes	3 Oct 1927	18 Jun 1940	LMS Division A engines		FALSE
92	C	25488		Details of copper firebox	1 Jun 1927		M.M. class 2-8-0 mineral engine (Consolidation type)		FALSE
92	C	25454		Details of steam passages under valves	11 Aug 1927		Cloughton class fitted with Caprotti valve gear		FALSE
92	C	25452	PC	Diagram of steel boiler smoke tubes for superheated engines	none		9 classes		FALSE
92	C	25452		Diagram of boiler smoke tubes (with copper ends) for superheated engines	6 Aug 1927	16 Jan 1935	9 classes		FALSE
92	C	25451	rider	Clips for vacuum control regulator gear	24 Apr 1929		4'3" 6 wheel coupled side tank engine for motor train working		FALSE
92	C	25451		Details of fittings for vacuum controlled regulator gear	8 Apr 1927		4'3" 6 wheel coupled side tank engine for motor train working		FALSE
92	C	25444		Details of additional forgings for brake gear	6 Aug 1927		4'3" 6 wheel coupled side tank coal engine fitted with "Crocker" patent brake lever		FALSE
92	C	25443		Details of additional castings for brake gear	6 Aug 1927		4'3" 6 wheel coupled side tank coal engine fitted with "Crocker" patent brake lever		FALSE
92	C	25442		Details of cross girder and cylinder carrying bracket	6 Aug 1927		4'3" 6 wheel coupled side tank coal engine fitted with "Crocker" patent brake lever		FALSE
92	C	25441		Arrangement of brake gear	6 Aug 1927		4'3" 6 wheel coupled side tank coal engine fitted with "Crocker" patent brake lever		FALSE
92	C	25430		Details of filling up plates and holes in lagging for exhaust pipe brackets, expansion brackets of firebox, and tank stay brackets	8 Jul 1927		Many classes of engine		FALSE
92	C	25344		Details of outer firebox top and side strengthening plates, expansion angle iron, & angles for vertical expansion stays	20 Jul 1927		Cloughton class fitted with Belpaire boiler 5'5" diameter		FALSE
92	C	25736		Arrangement of vacuum controlled regulator gear	23 Sep 1927		4'3" 6 wheel coupled side tank engine for motor train working		FALSE
92	C	25801		Firebox arrangement	16 Oct 1927	10 Dec 1942	Cloughton class fitted with Belpaire boiler 5'5" diameter		FALSE
93	C	26368		Casings for dome & safety valve	9 Jul 1928		Cloughton class fitted with Belpaire boiler 5'5" diameter		FALSE
93	C	26339		Details of longitudinal stay bracket & pipe clips	23 Jan 1928		Cloughton class fitted with Belpaire boiler 5'5" diameter		FALSE
93	C	26305		Details of main drive on intermediate axle	2 Jan 1928		Cloughton class fitted with Caprotti valve gear		FALSE
93	C	26258		Details of cam drive gear box	2 Jan 1928		Cloughton class fitted with Caprotti valve gear		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
93	C	26257		Detail of tubes	20 Dec 1927		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
93	C	26224		Internal pipe arrangement	19 Nov 1927		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
93	C	26182		Reversing gear castings	2 Jan 1928		Claughton class fitted with Caprotti valve gear		FALSE
93	C	26080		Firebox sections	11 Nov 1927		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
93	C	26056		Arrangement (rear end) & details of reversing gear	2 Jan 1928		Claughton class fitted with Caprotti valve gear		FALSE
93	C	26045		Detail of boiler & firebox stays	21 Nov 1927		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
93	C	26029		Arrangement of Derby pattern blow of cock	10 Nov 1927		Prince of Wales & Experiment classes fitted with round top boilers	For hot water washing out plant at Willesden depot	FALSE
93	C	26028		Arrangement of Derby pattern blow of cocks on Divn. 'A' engines	4 Nov 1927		21 classes of locomotives	To suit hot water washing out plant.	FALSE
93	C	26021		Details of driving spring gear (Derby pattern)	4 Nov 1927		Claughton class		FALSE
93	C	26597		Seatings for boiler fittings	27 Feb 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
93	C	26596		Details of lagging for boiler	25 Apr 1930		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
93	C	26594		Details of firehole stiffening plate	25 Feb 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
93	C	26589		Arrangement of smokebox	1 May 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
93	C	26582		Details of screw coupling	31 Jan 1928		Ex WD 2-8-0 mineral engine		FALSE
93	C	26575		Nameplates	23 Jan 1928		Royal Scot class		FALSE
93	C	26565		Arrangement of cam drive gear box	24 Jan 1928		Claughton class fitted with Caprotti valve gear		FALSE
93	C	26496		Firehole protection plate	23 Jan 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
93	C	26495		Adaptation of Midland oil pad to axleboxes for 11" x 5 1/2" journals	23 Mar 1931		3000 gallon tender		FALSE
93	C	26411		Arrangement of pipes in boiler	7 Jul 1921		Ex WD 2-8-0 mineral engine		FALSE
94	C	26764		Arrangement of smokebox	19 Nov 1928		Claughton class fitted with Caprotti valve gear		FALSE
94	C	26754		Details of handrail pillars & brackets	5 Apr 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26743		Detail of cast iron chimney	22 Aug 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26742		Details of casing for chain drive on reversing gear	1 May 1928		Claughton class fitted with Caprotti valve gear		FALSE
94	C	26739		Smokebox door, 4' 7 3/4" diameter, & details- Division 'A' engines	18 Dec 1930		13 locomotive classes		FALSE
94	C	26736		Left hand injector feed cock gear & footstep stay	5 Apr 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
94	C	26731		Arrangement of No.10 Gresham & Craven live steam injector fitted with 11mm cones	9 Jul 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26728		Detail of cab window frames	1 May 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26727		Exhaust pipe branch for ejector	5 Apr 1928	24 Jan 1940	Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26725		Arrangement of exhaust steam injector (1924 type) & details of exhaust steam pipes	1 Oct 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26724		Details of steam sanding gear	9 Jul 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26723		Details of sandbox adaptor for steam sanding gear	6 Mar 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26722		Arrangement of steam sanding gear & small ejector steam pipe	29 Oct 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26720		Details of casting for ashpan	No date		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26717		Details & arrangement of steadying bracket for boiler	4 Apr 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26711		Details of smokebox foundation casting & extension plate	23 Feb 1928		Claughton class fitted with Caprotti valve gear & 5'5" diameter boiler		FALSE
94	C	26709		Particulars of cab	9 Jul 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26699		Details of ashpan	27 Feb 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26667		Arrangement of "Parry" blower	4 Apr 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26652		Alteration required to suit Northern Division (12' 11") loading gauge	1 May 1928		Claughton class fitted with Belpaire boiler 5'2" diameter		FALSE
94	C	26651		Steam valve & details for "Parry" blower & exhaust injector	1 May 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26649		Relation of Claughton class to Midland & Northern Division loading gauges	30 Jan 1928		Claughton & Prince of Wales classes	Also relation of Prince of Wales engines to Mid. Div. Loading gauge	FALSE
94	C	26648		Relation of George the Fifth, G1 & G2 classes to Midland Division loading gauge	30 Jan 1928		George the Fifth & classes G1 & G2		FALSE
94	C	26610		Alterations to pipes & connections	16 May 1928		4'3" six wc side tank engine, fitted with vacuum controlled regulator gear for motor train working		FALSE
94	C	26607		Details of stand pipe & regulator gear	6 Apr 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26792		Details of whistle operating gear	21 Aug 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26791		Details of ejector gear at footplate end	29 Oct 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26783		Lubrication arrangement of driving & intermediate axle boxes	No date		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
94	C	26779		Details of handrails & ejector gear	1 Oct 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
94	C	26777		Steam header carrier, pump carrier for W. brake & tube plate protector plate	No date		WD 2-8-0 mineral engine		FALSE
94	C	26776		Automatic Vacuum brake 30" (diaphragm) cylinder	No date		No class		FALSE
94	C	26767		Arrangement of exhaust steam injector	No date		Claughton class fitted with Caprotti valve gear & 5'5" diameter boiler		FALSE
94	C	26766		Details of 4 1/2" pipes for exhaust steam injector	18 Dec 1930		Claughton class fitted with Caprotti valve gear & 5'5" diameter boiler		FALSE
94	C	26766		Arrangement of exhaust steam injector (Davies & Metcalfe "H" type)	No date		Claughton class fitted with Caprotti valve gear & 5'5" diameter boiler		FALSE
94	C	26799		Arrangement of firebars	15 Oct 1928	18 Aug 1934	Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
95	C	26800		Alterations required to existing splashers	5 Jun 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
95	C	27177		Shield fitted to reversing gear to protect driver from draughts	28 Sep 1928		Prince of Wales class		FALSE
95	C	27158		Pull rod for damper gear	11 Sep 1928		Claughton class fitted with Belpaire boiler 5'5" diameter		FALSE
95	C	27188		Details of reversing shafts	7 Nov 1930		Claughton class fitted with Caprotti valve gear & lever reversing		FALSE
95	C	27187		Details of castings for reversing shafts	21 Nov 1930		Claughton class fitted with Caprotti valve gear & lever reversing		FALSE
95	C	27186		Details of bevel wheels on reversing shafts	18 Dec 1930		Claughton class fitted with Caprotti valve gear & lever reversing		FALSE
95	C	27085		Seating for safety valves	No date		Claughton class with 5'2" dia. boiler & altered to suit Northern Div. (12'11") loading gauge		FALSE
95	C	27084		LMS standard headlamp	No date		Standard fitting		FALSE
95	C	27075		Detail of driving axlebox (7 1/2" diameter journal) with phosphor bronze keep	9 Aug 1928	14 Sep 1942	G1 class (superheated)	Also classes C, C1, D and G. Replaces drawings 19592 and 21144	FALSE
95	C	27075		Driving axlebox (7 1/2" diameter journal)	3 Feb 1943	1 Oct 1948	G1 class (superheated)	Replaces earlier drawing with same number	FALSE
95	C	26926		Bushes for blast pipe	24 Aug 1928		Claughton class		FALSE
95	C	27007		Details for connecting reversing shafts by means of chains	11 May 1932		Claughton class fitted with Caprotti valve gear		FALSE
95	C	26887		Alteration required to dome to suit Northern Division 12' 11" loading gauge	19 Nov 1928		Claughton class with 5'2" dia. Belpaire boiler		FALSE
95	C	26877		Solid drawn steel tubes	No date		0-8-0 freight engine (superheated)		FALSE
95	C	26870		Standard screw link couplings for engines and tenders	4 Jun 1928		Standard fitting		FALSE
95	C	26835		Detail of smokebox bottom plates	19 Nov 1928		Claughton class fitted with Caprotti valve gear and 5' 5" diameter boiler		FALSE
95	C	26826		Arrangement and details of lubricator pipes along boiler for Detroit lubricator	3 Jul 1931		Claughton class fitted with Caprotti valve gear and 5' 5" diameter boiler		FALSE
95	C	26810		Arrangement of smokebox front	1 May 1928		Claughton class with 5' 5" diameter boiler		FALSE
95	C	26807		Arrangement of handrails and ejector gear	19 Nov 1928		Claughton class with 5' 5" dia. Belpaire boiler		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
96	C	27490		Arrangement and details for fitting Midland Division type of water gauge	4 Mar 1929		4'0" 4 coupled shunter		FALSE
96	C	27481		Arrangement and details for fitting Midland Division type of water gauges	6 Feb 1929		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
96	C	27480		Alteration to suit steam pipe joint at tubeplate	7 May 1930		Claughton, Prince of Wales, George V, G1, G2, 5'6" tank and 5'0" 6 wheel coupled 19" goods classes		FALSE
96	C	27477		Arrangement and details for fitting Midland Division type of water gauge	6 Feb 1929		4'3" special tank engine, also 4'6" 4 coupled side tank and 4'3" 4 coupled shunter		FALSE
96	C	27467		Details of lagging brackets, stools, etc.	25 Apr 1930		Claughton class with 5' 5" diameter Belpaire boiler		FALSE
96	C	27449		Arrangement and details of firebars and carriers	1 Jan 1929	16 Aug 1934	Claughton class		FALSE
96	C	27389		3000 gallon tender	No date		L&NWR 3000 gallon tender with sloping bunker		FALSE
96	C	27383		Details of oil cup and locknut for valve boxes	No date		Claughton class fitted with Caprotti valve gear		FALSE
96	C	27377		Details of screen for tender wells	20 Nov 1928		Claughton and Prince of Wales classes		FALSE
96	C	27368		Detail of driving axlebox	2 Oct 1928	16 Jul 1943	5'6" 6 wheel coupled side tank and 6'0" 4 wheel coupled side tank		FALSE
96	C	27367		Alterations required for fitting of two Midland Division water gauges	21 Dec 1928		5'6" 6 coupled side tank fitted with superheater		FALSE
96	C	27366		Arrangement and details of shield for scoop	22 Nov 1928		Claughton and Prince of Wales classes		FALSE
96	C	27361		Arrangement of lever reversing gear	21 Nov 1930		Claughton class fitted with Caprotti valve gear		FALSE
96	C	27724		Details of firebars	22 Nov 1929		Very many classes of LMS Western, Central, Midland and Northern divisions		FALSE
96	C	27719		Diagram of steam brake cylinders and pipes	No date		2-8-0 M.M. engines		FALSE
96	C	27711		Details of tubeplates	2 Jan 1930		Claughton class with 5' 2" diameter boiler		FALSE
96	C	27674		Chart and diagram shewing clearances in CL of four foot for Western Division "A" engines	22 Nov 1929		Very many classes	Very useful for record of Western Division classes and their average ages	FALSE
96	C	27655		Details of tappet and thimble	No date		Caprotti valve gear		FALSE
96	C	27612		Arrangement of carriage heating gear and gauge blocks	7 Oct 1931		Claughton class with 5' 5" diameter Belpaire boiler		FALSE
96	C	27519		Longitudinal section	Nov 1900		0-6-0 goods engine		FALSE
96	C	27501		Details of fittings for vacuum controlled regulator gear for motor train working	11 Feb 1929		5'6" 4 coupled side tank passenger engine		FALSE
96	C	27500		Arrangement of vacuum controlled regulator gear for motor train working	20 Feb 1929		5'6" 4 coupled side tank passenger engine		FALSE
97	C	27752		Seating for boiler fittings	22 Nov 1929		George V, Prince of Wales, G1, G2 and 5'0" 6 coupled 18" and 19" goods and 6'0" 6 coupled express		FALSE
97	C	27856		Arrangement of rear end fitted with "Tandem" vacuum brake sack	19 Mar 1930		4-4-0 6'6" 4 wheel coupled, George V and Precursor classes		FALSE

Main Series Drawings List

Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
97	C	27854		Details of brakework when fitted with "Tandem" vacuum brake sack	19 Mar 1930		0-6-2 4'3" coal side tank		FALSE
97	C	27840		General arrangement of rear end fitted with "Tandem" vacuum brake sack	19 Mar 1930		0-6-2 4'3" coal side tank		FALSE
97	C	27823		Details of rubber fittings for vacuum brake on engines and tenders	18 Dec 1930		Old LNW stock		FALSE
97	C	27822		Arrangement of rear end fitted with "Tandem" vacuum brake sack	18 Mar 1930		Prince of Wales class		FALSE
97	C	27821		Arrangement of rear end fitted with "Tandem" vacuum brake sack	19 Mar 1930		Experiment class		FALSE
97	C	27800		Details of axle bearings	28 Nov 1929		Wheel balancing machine		FALSE
97	C	27798		Details of brakework when fitted with "Tandem" vacuum brake sack	20 Mar 1930		Prince of Wales and Experiment classes		FALSE
97	C	27762		General arrangement and details of "Tandem" vacuum brake sack	3 Dec 1929		General drawing		FALSE
97	C	27759		Details of brakework when fitted with "Tandem" vacuum brake sack	19 Mar 1930		George V and Precursor classes		FALSE
97	C	27750		Brake shaft when fitted with "Tandem" vacuum brake sack	20 Mar 1930		4'3" 6 wheel coupled coal side tank engines		FALSE
97	C	27733		Brake shaft when fitted with "Tandem" vacuum brake sack	8 Jan 1930		4-6-2 5'6" side tank engines		FALSE
97	C	27725		Details of spring reference letter W5	2 Jan 1930	19 Nov 1943	3000 gallon tender		FALSE
97	C	27868		Details of brake gear for engines fitted with increased brake power	20 Mar 1930		Precursor class side tank		FALSE
97	C	27867		General arrangement of steam and automatic vacuum brake on engines with increased brake power	20 Mar 1930		Precursor class side tank		FALSE
97	C	27764		Detail of main drive (intermediate) axle and crank pins for driving wheels	2 Jan 1930		Cloughton class fitted with Caprotti valve gear		FALSE
98	C	27905		Lubricator and pipe from back of firebox to steam pipe	9 Feb 1908		No class specified		FALSE
98	C	28440		Combined blower and circulating valve	22 Apr 1920		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
98	C	28439		Steam brake valve	15 Mar 1923		Ex WD 2-8-0 mineral engine (Consolidation type)	Supplied by Messrs Gresham and Craven Ltd., Ordsall Lane, Salford	FALSE
98	C	28438		Details of motion plate etc.	7 Jul 1921		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
98	C	28425		Steel wheel centres, details of rivet fastening	21 Nov 1930		No class specified		FALSE
98	C	28424		Gauge for tyre thickness on tread	No date		No class specified	Endorsed "not correct - see D2416"	FALSE
98	C	28385		Water gauge case in toolbox	18 Dec 1930		3000 gallon tenders		FALSE
98	C	28316		Standard cone unions for ejector steam pipe	No date		No class specified		FALSE
98	C	28289		Cross sections and end views	11 Apr 1894		4'6" 8 wheel side tank passenger engine, cylinders 17" diameter, 20in stroke	Endorsed "Engine first built 1-79"	FALSE
98	C	28288		Side and above views	11 Apr 1894		4'6" 8 wheel side tank passenger engine, cylinders 17" diameter, 20in stroke		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
98	C	28250		Detail of trunnion lubrication	7 Nov 1930		3000 gallon tender with sloping bunker		FALSE
98	C	28196		Caprotti valve gear inlet lever pin	No date		No class specified		FALSE
98	C	28195		Caprotti valve gear spring for tappet thimble	No date		No class specified		FALSE
98	C	28194		Caprotti valve gear inlet lever	No date		No class specified		FALSE
98	C	28193		Caprotti valve gear inlet valve	No date		No class specified		FALSE
98	C	28192		Caprotti valve gear balancing lever	No date		No class specified		FALSE
98	C	28182		Engine and tender tyres	11 Sep 1930		General		FALSE
98	C	28106		Tender sandbox details	No date	1 Sep 1930	Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
98	C	28058		Caprotti valve gear inlet roller	No date		No class specified		FALSE
98	C	28057		Caprotti valve gear balance pin	No date		No class specified		FALSE
98	C	28051		Details of back of firebox with oval firehole	No date	15 Mar 1939	George V class		FALSE
98	C	28050		Details of back of firebox with oval firehole	No date	12 May 1947	5'0" 6 coupled 19" goods and 4'3" 8 coupled goods, G1 and G2 classes		FALSE
98	C	27991		Spherical seatings for boiler fittings	No date		George V and Prince of Wales classes		FALSE
98	C	27974		Side and above views	11 Apr 1894		5'6" 4 wheel coupled 8 wheel side tank engine, cylinders 17" diameter, 24" stroke	Endorsed "Engine first built 10-90"	FALSE
98	C	27963		Firehole door casting, brick	No date		No class specified		FALSE
98	C	27922		Detail of shed identification number plate and clip	No date		Western Division "A" engines		FALSE
98	C	27914		Air pump metallic packing	No date		No class specified		FALSE
98	C	27910		Details of brake gear when fitted with "Tandem" vacuum brake sack	19 Mar 1930		4-6-2 5'6" 6 coupled side tank engine		FALSE
98	C	27909		General arrangement of rear end when fitted with "Tandem" vacuum brake sack	20 Mar 1930		4-6-2 5'6" 6 coupled side tank engine		FALSE
99	C	28459		End views	c1911		5'6" 6 coupled side tank engine with superheater, cylinders 20" diameter 26" stroke	Endorsed "First engine built January 1911"	FALSE
99	C	28513		General arrangement	16 Apr 1921		George V class fitted with "Scarab" oil fuel system		FALSE
99	C	28729		Radial track liners	No date		No class specified		FALSE
99	C	28668		Diagram of locomotive wheels	No date		8 classes including Precursor and Claughton		FALSE
99	C	28457		Side view	5 Apr 1911		5'6" 6 coupled side tank engine without superheater, cylinders 18 1/2" diameter 26" stroke	Endorsed "First engine built December 1910"	FALSE
99	C	28452		Smokebox tube plate carrier and platform supports	8 Jun 1921		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
99	C	28451		Rail washing valve	3 Jun 1921		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
99	C	28450		Smokebox view of front	8 Jun 1921		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
99	C	28449		Details of buffer casing	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
99	C	28448		Main reservoir, brake valve reservoir, isolating cock and coupling cock	7 Jul 1921		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
99	C	28447		Leading sandbox	3 Jun 1921		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
99	C	28446		Hind splashers	No date		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
99	C	28445		Diagram of steam valves in smokebox	14 Jul 1910		5'6" 6 coupled side tank engine without superheater		FALSE
99	C	28444		Front splashers and footstep treads	7 Jul 1921		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
99	C	28443		Hind drag casting	No date		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
99	C	28442		Rubbing block, guard bar and frame stay	12 Feb 1920		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
99	C	28441		Brake shaft, carriers and piston rod for brake cylinder	13 May 1921		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
99	C	28674		8" piston valve, liners, spindle and crosshead	25 Jan 1932	25 Aug 1943	1 1/16" lap and 1/4" exhaust clearance - George V, Precursor, Prince of Wales, Experiment classes	Also G1, G2 & 0-8-4 side tank classes	FALSE
99	C	28669		Diagram of lamp bracket in tank engines	12 Sep 1911		Tank engines		FALSE
99	C	28529		Tender brake details, screw and handle	3 Jun 1921		Ex WD 2-8-0 mineral engine (Consolidation type)		FALSE
99	C	28455		Details of air relief pipes on bunker	20 Nov 1911		5'6" 6 coupled side tank engine		FALSE
99	C	28566		8" piston valve, narrow rings	28 Apr 1931	17 Jul 1935	Claughton class		FALSE
99	C	28525		List of pins and studs	30 Dec 1889		4'3" 6 wheels coupled coal engine		FALSE
99	C	28524		List of special and standard bolts	30 Dec 1889		4'3" 6 wheels coupled coal engine		FALSE
99	C	28519		Diagram of header casting and superheater tubes	1 Feb 1912		Claughton class		FALSE
99	C	28578		Side view with general information	11 Jan 1912	30 Jun 1938	G1 class superheated		FALSE
99	C	28527		Side view with general information	13 Oct 1904		Experiment class		FALSE
99	C	28526		Side view with general information	1 Oct 1903		6'6" 4 wheels coupled passenger engine (with Joy's valve motion)		FALSE
99	C	28511		Details of wheels and axles	3 Feb 1914		Experiment and Precursor classes		FALSE
99	C	28510		Diagram of wheels and axles for engine and tender	7 Jul 1915		Precursor class		FALSE
99	C	28785		Standard piston rings	No date	17 Jul 1935	"Old LNW"		FALSE
99	C	28762		Details of back of firebox with oval firehole	24 Feb 1931	15 Mar 1939	Prince of Wales class with Belpaire boiler		FALSE
100	C	29135		Elevation and end views	22 Feb 1907		5'0" 6 wheel coupled 4 cylinder compound goods engine	Also paper copy in Crewe unnumbered series	FALSE
100	C	29119		Elevation	1 Apr 1903		5'0" 6 wheel coupled 4 cylinder compound goods engine	No. 1400 portrayed	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
100	C	29104	B	Bed support for wood ferrule semi-automatic lathe	16 Feb 1933		Lathe part		FALSE
100	C	29104	A	Bed for wood ferrule semi-automatic lathe	2 Mar 1933		Lathe part		FALSE
100	C	29108		Elevation and plan	2 Feb 1903		50 ton bogie trolley		FALSE
100	C	29009	9	Inlet valve retrieving spring	No date		Part		FALSE
100	C	29009		Arrangement and details of valve spindles	11 May 1932		Claughton class with 5' 5" diameter boiler and Caprotti gear		FALSE
100	C	28945		Details of oil sieve for Wakefield's no. 1 mechanical lubricator (4 feeds)	No date		Part		FALSE
100	C	28943		Alterations to position of injectors	3 Jul 1931		Claughton class for engines "MM" tenders		FALSE
100	C	28916		Water gauge in tool boxes	20 May 1931		Tank engines		FALSE
100	C	28913		Diagram sheet of standard clips	6 Jan 1932		General parts list		FALSE
100	C	28912		Proposed connection between side and bunker tanks	14 Aug 1934		5'6" 6 wheel coupled superheated tank engine		FALSE
100	C	28904		Diagram sheet of spring backs	No date		Parts		FALSE
100	C	28866		Cross sections and end views	11 Apr 1894		4'3" 8 wheeled coal side tank engine	First engine built Sep 1881	FALSE
100	C	28855		Classification of peened piston rings	22 Apr 1931		List		FALSE
100	C	28852		Elevation and plan	7 Mar 1907		6'0" 4 wheel coupled side tank engine, 4-4-2	First engine built May 1906	FALSE
100	C	28851		Sections	7 Mar 1907		6'0" 4 wheel coupled side tank engine, 4-4-2		FALSE
100	C	28847		Detail of exhaust balance lever spring	15 Apr 1931		Caprotti gear		FALSE
100	C	28841		Elevation	18 Jan 1913		Claughton class		FALSE
100	C	28840		Elevation	7 Apr 1924		Prince of Wales superheated with Belpaire boiler and fitted with Walschaert's motion		FALSE
100	C	28839		Elevation	14 Nov 1922		Prince of Wales superheated fitted with Walschaert's motion		FALSE
100	C	28838		Elevation	11 Jan 1912		Prince of Wales class		FALSE
100	C	28837		Asbestos mattress clothing	26 Nov 1925		Prince of Wales superheated with Belpaire boiler		FALSE
100	C	28817		Elevation	16 May 1907		6'0" 4 wheel coupled side tank passenger engine		FALSE
100	C	28813		Elevation and plan	19 Oct 1906		5'0" 6 coupled goods engine	First engine built Dec 1906	FALSE
100	C	28812		Cylinder valve facing machine	29 Jan 1889		6 wheels coupled goods engine		FALSE
100	C	28811		Elevation, plan and sections	15 Nov 1896		4'3" 4 wheel coupled shunting engine		FALSE
100	C	28810		Standard 4'7 3/4" diameter smoke box door and details	23 Mar 1931		13 Division "A" classes		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
100	C	29149		Diagram of patch plate on inside of frame	No date		Various classes of engine		FALSE
100	C	29145		Friction clutch and lever for wood ferrule semi-automatic lathe	16 Jul 1931		Part		FALSE
100	C	29141		Wood guard for wood ferrule semi-automatic lathe	17 Jun 1931		Part		FALSE
100	C	29136		Elevation and plan	9 Jul 1903		5'0" 6 wheel coupled 4 cylinder compound goods engine	Also paper copy in Crewe unnumbered series	FALSE
101	C	29187		Arrangement of wood ferrule semi-automatic lathe	4 Aug 1931		Part		FALSE
101	C	29165		Spherical and copper ring joints for boiler mountings	23 Mar 1932		Boiler parts		FALSE
101	C	29253		Standard unions	11 May 1932		Standard parts		FALSE
101	C	29252		Arrangement shewing fitting of "W19" spring to trailing wheels	No date	4 Nov 1943	G1 class		FALSE
101	C	29245		Detail of inlet valve	No date		Caprotti gear		FALSE
101	C	29236		Detail of 21" crab traverser wheels	26 Feb 1945		50-ton Arrol E.O. travelling cranes for Erecting Shop South		FALSE
101	C	29608		Diagram sheet of axlebox steps	11 May 1932		Many classes of engine		FALSE
101	C	29578		Bunker doors and tool box	25 Jan 1932		Claughton and Prince of Wales with "MM" tenders		FALSE
101	C	29385		Brick arch	19 Jan 1931		Standard compound engines		FALSE
101	C	29383		Brick arch	19 Jan 1931		Claughton class with 5'5" diameter Belpaire		FALSE
101	C	29363		8" piston valve, liners, spindle and crosshead	26 Jan 1932	10 Jul 1942	Engines with 1 3/8" and 1 1/4" lap and 1 1/16" exhaust clearance		FALSE
101	C	29350		Foot lever assembly for operating friction clutch on wood ferrule semi-automatic lathe	24 Oct 1931		Part		FALSE
101	C	29300		Arrangement and details of Kylchap blast pipe in smokebox	7 Oct 1931		Claughton class with 5' 5" diameter boiler and Caprotti gear		FALSE
101	C	29295		50 foot engine turntable	22 Mar 1920		Turntable		FALSE
101	C	29264		Detail of exhaust valve	No date		Caprotti gear		FALSE
101	C	29254		Solid reversing shaft and balance weights	7 Oct 1931		No.2 class passenger engine		FALSE
101	C	29158		Detail of shafts on wood ferrule semi-automatic lathe	21 Jul 1931		Part		FALSE
101	C	29678		Double-rievted firebox plates	28 Feb 1934		Prince of Wales class with Belpaire boiler		FALSE
101	C	29265		Exhaust valve guide	No date		Caprotti gear		FALSE
101	C	29266		Detail of inlet valve guide	No date		Caprotti gear		FALSE
101	C	29500		Wind plates for preventing down draught	23 Feb 1932		Claughton class with and without Caprotti valve gear		FALSE
101	C	29679		Seating block for whistle stand	28 Feb 1934		Prince of Wales class with Belpaire boiler and 19" goods engines		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
102	C	29991		Arrangement of locking gear, carrier wheels etc.	17 Feb 1920		50-ft turntable		FALSE
102	C	29933		Blower connection for tube plate	No date		Western Division		FALSE
102	C	29852		Joints for smokebox and firebox fittings	13 May 1932		Rebuilt Claughton class with 5X boiler		FALSE
102	C	29838		Diagram shewing crane clearances	23 Apr 1925		No.8 Erecting shop		FALSE
102	C	29836		Plan shewing position of rainwater drains	16 Oct 1925		New erecting and machine shop at Crewe		FALSE
102	C	29827		Key to standard union sheet	11 May 1932		List of parts		FALSE
102	C	29760		Whistle stand seating	4 Oct 1933		G1 and G2 classes with Belpaire boilers		FALSE
102	C	29759		Foundation ring - Belpaire boilers to drawing 29758	1 Feb 1934		G1 and G2 classes with Belpaire boilers		FALSE
102	C	29758		Double-riveted firebox plates	4 Oct 1933		G1 and G2 classes with Belpaire boilers		FALSE
102	C	29734		Radial truck details	25 Sep 1924		Claughton class		FALSE
102	C	29733		Radial truck details	25 Sep 1924		Experiment and Prince of Wales classes		FALSE
102	C	29732		Radial truck details	25 Sep 1924		Precursor class		FALSE
102	C	29731		Radial truck details	25 Sep 1924		6'0" 4 wheel coupled side tank passenger engine		FALSE
102	C	29730		Radial truck details	25 Sep 1924		5'6" 6 wheel coupled side tank passenger engine		FALSE
102	C	29729		Radial truck details	25 Sep 1924		Renown and Alfred the Great classes		FALSE
102	C	29728		Radial truck details	25 Sep 1924		6'0" 4 coupled straight link passenger engine		FALSE
102	C	29727		Radial truck details	25 Sep 1924		5'6" 6 wheel coupled side tank passenger engine with 18" cylinders		FALSE
102	C	29726		Radial truck details	26 Sep 1924		4'6" 4 wheel coupled side tank engine		FALSE
102	C	29725		Radial truck details	25 Sep 1924		5'0" 6 wheel coupled goods engines with 19" cylinders		FALSE
102	C	29724		Radial truck details	25 Sep 1924		5'0" 6 wheel coupled goods engines with 18" cylinders, Special DX and 4'3" coal engines		FALSE
102	C	29723		Radial truck details	25 Sep 1924		4'3" 8 wheel coupled coal engines		FALSE
102	C	29723		Radial truck details	25 Sep 1924		4'3" 6 wheel coupled coal, saddle, and special tank engines		FALSE
102	C	29721		Radial truck details	25 Sep 1924		4'3" 4 wheel coupled shunting engine		FALSE
102	C	29743		Hind drag box steel casting	No date		Rebuilt Claughton class		FALSE
102	C	29742		Food box	11 May 1932		Claughton engines with "MM" tenders		FALSE
102	C	29735		Clearance above rail level with exception of bogies	No date		4-6-4 Baltic tank		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
102	C	29680		Foundation ring for Belpaire boilers	28 Feb 1934		Belpaire boilers on Prince of Wales, Experiment and 19" goods engines	To drawing 29678	FALSE
103	C	31914		Engine wheel balancing, sheet no. 1	17 Oct 1934		2-8-0 freight engine, nos. 8000-8011		FALSE
103	C	31790		Alterations to frame	14 Mar 1935	23 Oct 1959	Royal Scot class with taper boiler, no. 6170		FALSE
103	C	31652		Firebox arrangement	24 Jan 1935	19 Sep 1949	Royal Scot class with taper boiler, no. 6170		FALSE
103	C	31687		Arrangement of smokebox	23 Aug 1935	1 Mar 1940	Not stated but probably Royal Scot class with taper boiler, no. 6170		FALSE
103	C	31467		Clothing arrangement	27 Nov 1934	5 Jun 1944	2-8-0 superheated freight engine, nos. 8000-8011		FALSE
103	C	31333		Internal pipe arrangement	11 Oct 1934	18 Aug 1936	2-8-0 superheated freight engine, nos. 8000-8011		FALSE
103	C	31304		Back plate and mountings	23 Jul 1937	14 Jan 1944	2-8-0 superheated freight engine, nos. 8000-8011		FALSE
103	C	31285		Cab arrangement	25 Jul 1934	7 Dec 1960	2-8-0 superheated freight engine		FALSE
103	C	31160		General arrangement of pony truck	18 May 1934	7 Dec 1960	2-8-0 superheated freight engine, nos. 8000-8011		FALSE
103	C	31011		Shields for saw movement for wood ferrule semi-automatic lathes for "joiners' shop"	17 Jan 1934		Part	Original tracing	FALSE
103	C	31004		Arrangement of smokebox with 3-row superheater elements	28 Nov 1934	25 Oct 1954	2-8-0 superheated freight engine, nos. 8000-8011		FALSE
103	C	30333		Elevation, plan and end views	2 Aug 1898		Dundalk, Newry and Greenore Rly 5'0" 6 wheel coupled saddle tank with cyls 17" dia. x 24" stroke		FALSE
103	C	31482		Pipe arrangement, elevation and plan	21 Dec 1934	23 Oct 1942	2-8-0 superheated freight engine, nos. 8000-8011		FALSE
103	C	31483		Pipe arrangement, end views	21 Dec 1934	20 May 1939	2-8-0 superheated freight engine, nos. 8000-8011		FALSE
103	C	30990		Crank pins	11 Apr 1934	12 Feb 1959	2-8-0 superheated freight engine		FALSE
103	C	30972		Profile shewing extreme throwovers on 6 chain curve	29 Dec 1933		2-8-0 superheated freight engine		FALSE
103	C	30931		Standard cast iron piston rod packing	4 Jan 1934		8 classes of engine		FALSE
103	C	30914		Valve diagram	15 Dec 1933		2-8-0 superheated freight engine		FALSE
103	C	30792		Arrangement of vacuum controlled regulator	8 Nov 1937		0-6-0 standard side tank engine ("Jinty")		FALSE
103	C	30665		Tender axle	28 Nov 1933	10 Sep 1948	Standard fitting Standard fitting		FALSE
103	C	30581		Tender frame	No date	26 Nov 1943	4000-gallon tender		FALSE
103	C	30568		Tank arrangement	No date	28 Nov 1952	4000-gallon tender for 4-6-2 engine		FALSE
104	C	32454		Elevation and plan	21 Mar 1895		5'9" rebuilt Metropolitan side tank engine		FALSE
104	C	32456		Elevation	26 Jun 1894		7'0" 8 wheel compound passenger engine		FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
104	C	32481		Elevation and end views	May 1897		7'0" 4 wheels coupled 4 cylinder passenger engine		FALSE
104	C	32205		Elevation and plan	25 Mar 1894		6'0" 8 wheel compound passenger engine		FALSE
104	C	32296		Pipe and rod arrangement, end views	17 Oct 1935	23 Oct 1959	Royal Scot with taper boiler no. 6170		FALSE
104	C	32299		End views	25 Mar 1894		6'0" 8 wheel compound passenger engine		FALSE
104	C	32342		Elevation, plan and end views	24 Sep 1886		8 wheel side tank compound passenger engine		FALSE
104	C	32439		Elevation and plan	9 Jul 1887		5'0" compound goods tank engine		FALSE
104	C	32444		Clothing arrangement	12 Feb 1936	23 May 1944	2-8-0 superheated freight engine with sloping throat plate	Paper copy also in Crewe unnumbered series	FALSE
104	C	32436		Smokebox arrangement	26 Mar 1936	25 Oct 1954	2-8-0 superheated freight engine with sloping throat plate	Paper copy also in Crewe unnumbered series	FALSE
104	C	32295		Pipe and rod arrangement, elevation and plan	16 Oct 1935	5 Apr 1954	Royal Scot with taper boiler no. 6170		FALSE
104	C	32247		Internal pipe arrangement	21 Jan 1936	22 Sep 1950	2 cylinder 4-6-0 with taper boiler and sloping throat		FALSE
104	C	32154		Engine balancing sheet no. 2	17 Oct 1934		2-8-0 superheated freight engine, nos. 8000-8011		FALSE
104	C	32129		Boiler arrangement	19 Oct 1935	3 Feb 1953	2-8-0 superheated freight engine with sloping throat plate	Paper copy also in Crewe unnumbered series	FALSE
104	C	32089		Clothing arrangement	7 Oct 1935	5 Sep 1944	Royal Scot with taper boiler no. 6170		FALSE
104	C	32068		Cab arrangement	5 Sep 1935		Royal Scot with taper boiler no. 6170		FALSE
104	C	32028		Part inside motion arrangement (front end)	30 Sep 1935	10 Nov 1939	Royal Scot with taper boiler no. 6170		FALSE
104	C	32027		Part outside motion arrangement (front end)	17 Jun 1935	10 Nov 1939	Royal Scot with taper boiler no. 6170		FALSE
104	C	32004		Arrangement of back plate and mountings	7 Nov 1935	11 Nov 1949	Royal Scot with taper boiler no. 6170		FALSE
105	C	32718		Engine balancing sheet no. 1	23 Apr 1936		2 cyl 4-6-0 MT taper boiler with sloping throat plate		FALSE
105	C	32705		Engine balancing sheet no. 1	16 Jan 1935		2 cyl 2-8-0 freight with taper boiler and sloping throat plate		FALSE
105	C	32861		Pipe and rod arrangement end views	7 Aug 1937	7 Jan 1960	2 cyl 2-8-0 superheated freight engine		FALSE
105	C	32725		Grease gun lubrication - shed chart (not including parts oiled daily by driver)	none		2 cyl 2-8-0 freight engine	Paper copy also in Crewe unnumbered series	FALSE
105	C	32785		connecting rods	none		not stated		FALSE
105	C	32737		Diagram of Joy's valve gear	26 Feb 1909		Precursor class		FALSE
105	C	32595		Pipe and rod arrangement end views	6 Mar 1936	15 Nov 1960	2 cyl 4-6-0 MT with NS taper boiler with sloping throat plate	paper drawing	FALSE
105	C	32614		Details of central frame and bearing	15 Oct 1900		7'0" 4 coupled compound engine		FALSE
105	C	32612		Alterations to 4000 gallon tender for increased coal capacity	14 Jul 1936	12 Feb 1943	4000 gallon tender for 4-6-2 engines type 2 riveted		FALSE
105	C	32592		Details of rocking levers and general arrangement of valve gear	23 Dec 1897		7'0" 4 wheels coupled compound passenger engine		FALSE

Main Series Drawings List

Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
105	C	32540		Backplate and mountings - taper boiler	25 Feb 1936	14 Jan 1944	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	Paper copy also in Crewe unnumbered series	FALSE
105	C	32594		Pipe and rod arrangement elevation and plan	20 Feb 1936	1 Oct 1956	2 cyl 4-6-0 MT taper boiler with sloping throat plate	paper drawing - poor quality	FALSE
105	C	32523		Pipe and rod arrangement end views	31 Mar 1936	7 Dec 1960	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	Paper copy also in Crewe unnumbered series	FALSE
105	C	32522		Pipe and rod arrangement elevation and plan	20 Feb 1936	7 Dec 1960	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	2487	FALSE
106	C	33109		Arrangement of streamlining below platform	23 Apr 1937	22 Dec 1943	4000 gallon tender type 3 for 4-6-2 passenger engine		FALSE
106	C	33808		Pipe and rod arrangement elevation and plan	29 Aug 1938	7 Dec 1960	2 cyl 2-8-0 freight with taper boiler and sloping throat plate		FALSE
106	C	33426		General arrangement 4000 gallons tender (streamlined)	15 Sep 1937		4000 gallon tender type 3 for 4-6-2 passenger engine	paper drawing - 2 more copies in Crewe unnumbered series	FALSE
106	C	33809		Pipe and rod arrangement end views	20 Feb 1936	7 Dec 1960	2 cyl 2-8-0 freight with taper boiler and sloping throat plate		FALSE
106	C	33896		Firebox arrangement	20 Nov 1935	23 Mar 1955	2 cyl 2-8-0 freight with taper boiler and sloping throat plate		FALSE
106	C	33885		Double blast pipe	22 Mar 1939	26 Oct 1954	4-6-2 passenger engine		FALSE
106	C	33850		Engine balancing sheet no. 2	xx Feb 1939		2 cyl 4-6-0 MT taper boiler with sloping throat plate		FALSE
106	C	33849		Engine balancing sheet no. 1	xx Feb 1939		2 cyl 4-6-0 MT taper boiler with sloping throat plate		FALSE
106	C	33690		Balance weights. Wheel balancing machine	10 May 1938	10 May 1938	2 cyl 4-6-0 taper boiler with sloping throat plate		FALSE
106	C	33621		Arrangement of lubricating, cylinder cock gear and steam sanding	12 Apr 1938	9 Mar 1954	2 cyl 4-6-0 MT engines		FALSE
106	C	33607		Motion arrangement	8 Aug 1938	28 Dec 1939	2-8-0 taper boiler freight engine	Paper copy also in Crewe unnumbered series	FALSE
106	C	33551		Smokebox arrangement	12 Apr 1938	25 Oct 1954	2 cyl 4-6-0 MT engines		FALSE
106	C	33118		No title - elevation and end views	2 Feb 1937	18 Jan 1945	2 cyl 4-6-0 MT engine with dome added	Very 'thin' ink quality	FALSE
106	C	33059		Tank capacity diagram	14 Nov 1936		Standard 4000 gallon tender		FALSE
107	C	34874		Pipe and rod arrangement end views	20 Feb 1936	7 Dec 1060	2 cyl 2-8-0 freight engine with taper boiler and sloping throat plate		FALSE
107	C	34908		Cross sections and end views	15 May 1989		5'0" 6 wheels coupled side tank engine		FALSE
107	C	34422		Pipe and rod arrangement elevation and plan	20 Feb 1936	7 Dec 1960	2 cyl 2-8-0 freight engine with taper boiler and sloping throat plate		FALSE
107	C	34776		Firebox arrangement	14 Mar 1935	23 Mar 1955	Royal Scot with taper boiler		FALSE
107	C	34775		Boiler arrangement	1 Nov 1934	3 Feb 1953	2 class nickel steel boiler for engine 6170		FALSE
107	C	34285		Motion arrangement	none		2 cyl 2-8-0 freight engine with taper boiler		FALSE
107	C	34263		Motion arrangement	20 Jun 1940	15 Dec 1941	2 cyl 2-8-0 freight engine with taper boiler		FALSE

Main Series Drawings List

Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
107	C	34222		General arrangement	xx Jan 1940		4000 gallon tender - coal capacity 9 tons	paper drawing - torn	FALSE
107	C	34196		Engine balancing sheet no. 2	13 Aug 1943		2 cyl 4-6-0 engines 40% recip. wt. balanced		FALSE
107	C	34195		Engine balancing sheet no. 1	12 Feb 1943		2 cyl 4-6-0 engines 40% recip. wt. balanced		FALSE
107	C	34154		Smokebox arrangement	24 Oct 1939	25 Oct 1954	Royal Scot with taper boiler		FALSE
107	C	34132		Double blast pipe	19 Aug 1939	27 May 1942	Royal Scot with taper boiler		FALSE
108	C	35746		Elevation and sections	15 Aug 1893		4'3" 8 wheels coupled compound coal engine		FALSE
108	C	35744		Appears to be the left hand end of a much larger drawing cut off	none		no information		FALSE
108	C	35742		Elevation and plan	14 Apr 1890		7'0" compound passenger engine		FALSE
108	C	35715		Simple elevation and section	xx Mar 1864		4 wheels coupled passenger engine	Copy of original drawing	FALSE
108	C	35567		General arrangement of Joy's valve motion - low pressure motion	11 May 1889		7'0" compound passenger engine		FALSE
108	C	35534		Alterations to frame etc. when cross stays to drawings C35502 and C35503 are fitted	30 Nov 1942	31 Aug 1944	2 cyl 4-6-0 engines		FALSE
108	C	35385		Pipe and rod arrangement end views	20 Feb 1936	19 Nov 1942	2 cyl 2-8-0 freight with taper boiler and sloping throat plate		FALSE
108	C	35369		Frame arrangement	20 Jun 1942	7 Dec 1960	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	Also in Crewe unnumbered series	FALSE
108	C	35292		Firebox	10 Apr 1924		6'0" 4 coupled passenger engine 2-4-0 type (straight link)		FALSE
108	C	35174		Capacity and type number plate - tender	12 Nov 1941	21 Jan 1947	Many types of tender		FALSE
108	C	35143		Motion arrangement	3 Dec 1941	24 Dec 1942	2 cyl 2-8-0 freight engine with taper boiler	Another copy in Crewe unnumbered series	FALSE
109	C	36774		Arrangement of self-cleaning smokebox details	none		General		FALSE
109	C	36758		Deflector plate details for self-cleaning smokebox	none		General		FALSE
109	C	36745		Screen details for self-cleaning smokebox	none		General		FALSE
109	C	36742		Table plate details for self-cleaning smokebox	none		General		FALSE
109	C	36434		Details of clips for carriage heating apparatus	23 Jan 1946		G2 and G2A classes (ex LNW)		FALSE
109	C	34630		Trailing sandpipe and stay	2 Feb 1946		G2 class		FALSE
109	C	36429		Arrangement of carriage heating apparatus	23 Feb 1946		G2 and G2A classes (ex LNW)		FALSE
109	C	36428		Alteration to frame and covering plates	25 Feb 1946		G2 class		FALSE
109	C	36427		Arrangement of steam sanding	6 Jun 1946		G2 class		FALSE

Main Series Drawings List

Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
109	C	36425		Steam sanding - alteration to panel	25 Feb 1946		G2 class		FALSE
109	C	36424		Casing over sandbox extension pipe	4 Mar 1946		G2 class		FALSE
109	C	36423		Sandbox extension and lid (trailing sandbox)	23 Jan 1946		G2 class		FALSE
109	C	36422		Trailing sandbox	23 Jan 1946		G2 class		FALSE
109	C	36421		Miscellaneous details	14 Mar 1946		G2 class		FALSE
109	C	36420		Steam cock for sanding	12 Mar 1946		G2 class		FALSE
109	C	36298		Bearing spring coupled wheels	9 Feb 1945	11 Jul 1956	WD?	Traced from North British Locomotive Co. Ltd., Glasgow, print	FALSE
109	C	36297		Bearing spring for pony truck	9 Feb 1945	10 Jul 1956	WD?	Traced from North British Locomotive Co. Ltd., Glasgow, print	FALSE
110	C	37263		Elevation	8 May 1890		7'0" compound passneger engine 3103 "Jeanie Deans"		FALSE
110	C	37262		Arrangement of firebox	11 Apr 1950	21 Mar 1960	WD 2-8-0 built 1950	CME Loco drawing office Doncaster - original no. N-1228	FALSE
110	C	37261		Arrangement of boiler	12 Apr 1950	21 Mar 1960	WD 2-8-0 built 1950	CME Loco drawing office Doncaster - original no. N-1227	FALSE
110	C	37260		Pipe carriers and clips	6 Mar 1950		Not stated - North British Locomotive Co. Ltd., Glasgow	Original no. 42-881	FALSE
110	C	37259		Metallic piston rod packing	29 Jun 1943		2-8-0 WD classes 06 and 07	Original no. C31039	FALSE
110	C	37258		Gauge carrier	13 Nov 1942		Not stated - North British Locomotive Co. Ltd., Glasgow	Original no. 42-948	FALSE
110	C	37257		Handbrake standard shield to prevent ingress of coal	29 Oct 1945		MOS 2-10-0 and 2-8-0	LNER original no. Z-186	FALSE
110	C	37256		Alteration to fire iron carrier	6 Oct 1948		Class 07	LNER original no. Z-266, supersedes 42-747 and Z-265	FALSE
110	C	37255		Sand ejector	29 Jul 1948		Class 07	LNER original no. X-1019, supersedes ejector on 42-67	FALSE
110	C	37254		Ashpan and grate arrangement	no date	10 Sep 1959	Not stated	Original nos. X-884 and L-943	FALSE
110	C	37053		Tarpaulin sheets and details	2 Dec 1948		5'0" 18" goods ex-LNWR (2 engines)		FALSE
110	C	37049		Snow plough - pillar for side screen	26 Jan 1948		5'0" 18" goods ex-LNWR	Pencil drawing on tracing paper	FALSE
110	C	37047		Details for fitting of snow plough	29 Nov 1948		5'0" 18" goods ex-LNWR (2 engines)	Pencil drawing on tracing paper	FALSE
110	C	37046		Bracket	22 Nov 1948	30 Dec 1948	5'0" 18" goods ex-LNWR (2 engines)		FALSE
110	C	37068		Frame insert	6 Jan 1949	8 Apr 1949	2 cyl 2-8-0 freight engines		FALSE
110	C	37066		Frame insert	6 Jan 1949	7 Apr 1949	2 cyl 4-6-0 MT engine nos. 45000-45461		FALSE
110	C	37065		Frame insert	6 Jan 1949		4'3" 8 coupled coal engine (superheated) G1 class		FALSE
110	C	37064		Frame insert	6 Jan 1949		4'3" 8 coupled coal engine (superheated) G2 class		FALSE

Main Series Drawings List

Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
110	C	37063		Frame insert	6 Jan 1949	6 Apr 1949	2 cyl 2-8-0 freight engine nos. 4800--48011		FALSE
110	C	37062		Frame insert	6 Jan 1949	7 Apr 1949	3 cyl 4-6-0 engines		FALSE
110	C	37058		Arrangement of snow plough	30 Dec 1948	30 Dec 1948	5'0" 18" goods ex-LNWR		FALSE
110	C	37093		Table of values of A in inches, D in minutes, crank pin settings	none		General		FALSE
110	C	37077		Modification to front tender covering to include tool box	6 Jan 1949		2500 gallon ex-LNWR tenders - 2 made	Alternative date 6 Jan 1948	FALSE
110	C	37045		Snowplough - gusset for buffer beam	23 Mar 1948	22 Nov 1948	5'0" 18" goods ex-LNWR		FALSE
111	C	37544		Temporary spring links for pony truck wheels	25 Jan 1951		4-6-2 type 6 and 4-6-2 type 7 classes		FALSE
111	C	37538		Temporary spring links for bogie wheels	2 Jan 1951		4-6-2 type 6 and 7 BR standard loco		FALSE
111	C	37526		Temporary spring links for pony truck wheels	2 Jan 1951		4-6-2 passenger engines nos. 46256 and 46257	These temporary links to be fitted for weighing purposes only. Not to leave works under any circumstances	FALSE
111	C	37525		Temporary spring links for coupled wheels	26 Jan 1951		4-6-2 passenger engines nos. 46256 and 46257	These temporary links to be fitted for weighing purposes only. Not to leave works under any circumstances	FALSE
111	C	37523		Temporary spring links for coupled wheels	2 Jan 1951		4-6-2 type 6 and 7 BR standard loco		FALSE
111	C	37511		Coupled axlebox keep filler pipe	6 Sep 1950		BR 4-6-2 class 7 - 43 engines: 6203-6212 and 6220-6252		FALSE
111	C	37400		Copper tubeplate	11 Jan 1950		WD 2-8-0 Austerity loco		FALSE
111	C	37488		Firehole protection plate	29 Aug 1950		No class specified		FALSE
111	C	37474		Frame inserts	11 May 1950	3 Apr 1952	2 cyl 4-6-0 MT engines		FALSE
111	C	37471		Frame inserts	8 May 1950		2 cyl 4-6-0 MT engine nos. 45000-45451		FALSE
111	C	37415		Forging for piston	20 Jan 1950	29 Sep 1961	BR classes 5 4-6-0, 6 and 7 4-6-2		FALSE
111	C	37395		Modification to self-cleaning smokebox arrangement - conversion of double to single blast pipe	7 Dec 1945		2 cyl 4-6-0 class 5	Pencil drawing on tracing paper	FALSE
111	C	37375		Modification to rotary bunker showing end plate welded in position	21 Oct 1949		Garratt engines		FALSE
111	C	37350		Arrangement of rear tender footsteps 3000 gallon tender	12 Oct 1949		G2 and G2A classes		FALSE
111	C	37362		Rear tender footstep 3000 gallon tender	12 Oct 1949		G2 and G2A classes		FALSE
111	C	37358		Lifeguard	7 Sep 1949		Class 8 WD 2-8-0 engines fitted with no. 6 snowplough		FALSE
111	C	37354		Details for fitting no. 6 snowplough	2 Sep 1949		Class 8 WD 2-8-0 engines fitted with no. 6 snowplough		FALSE
111	C	37348		Arrangement of no. 6 snowplough	2 Sep 1949		Class 8 WD 2-8-0 engines fitted with no. 6 snowplough		FALSE

Main Series Drawings List

Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
111	C	37332		Diagrams of boilers	8 Jul 1949		Class G1 Belpaire type and 5'0" 6 coupled goods engine 18" cylinders Belpaire type		FALSE
112	C	38023		Alteration to back dragbox engine	10 Feb 1956	6 Feb 1957	Class 8 WD 2-8-0	Drawing E-61 from BE ER and NER Doncaster works	FALSE
112	C	38016		Simple elevation and end views	5 Nov 1953		1'6" gauge tramway locomotive "Pet" - 1865	Paper copy of drawing in Crewe Unnumbered series	FALSE
112	C	38591		Arrangement and details of carrier for internal pipes when fitted with boiler to D.14210	8 Aug 1958		Ex LMS 2 cyl and 3 cyl 2-6-4 tank engines		FALSE
112	C	38534		Battery box bracket and fireman's seat	8 Aug 1958		LMS class 5 4-6-0		FALSE
112	C	38521		Arrangement and details of wood platform	2 Jun 1958 or 9		LMS class 5 4-6-0	Poor quality	FALSE
112	C	38517		Combined gauge and ATC cab control unit carrier	28 Aug 1958		LMS class 5 4-6-0		FALSE
112	C	38380		Coupled axlebox guides	8 Oct 1943	11 Oct 1948	Not stated - North British Locomotive Co. Ltd., Glasgow	Original drawing no. L-943	FALSE
112	C	38325		Alteration to ashpan	Jun 1947	Jun 1953	M of S 2-8-0 Austerity locomotive	Attachment to GWR drawing 42-517	FALSE
112	C	38188		Piston crosshead slideblock	9 Jun 1955		WD 2-8-0 and 2-10-0		FALSE
112	C	38173		Arrangement and details of reversing gear catch	none	18 Aug 1958	WD 2-8-0 Austerity nos. 91010-90731		FALSE
112	C	38071		Water gauge lamp brackets	3 May 1954		WD 2-8-0 Austerity		FALSE
112	C	38070		Alterations to front dragbox	28 Nov 1951	15 Nov 1956	Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-Z-279	FALSE
112	C	38036		Coupling rod details	27 Aug 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-484	FALSE
112	C	38035		Coupling rod bushes and oiling washers	30 Jul 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-482	FALSE
112	C	38034		Connecting rod bushes and oiling washer	9 Oct 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-488	FALSE
112	C	38033		Leading coupling rod	12 Oct 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-485	FALSE
112	C	38032		Trailing coupling rod	12 Oct 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-486	FALSE
112	C	38027		Arrangement and details of casing for injector delivery pipe	12 Aug 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-G-254	FALSE
112	C	38031		Intermediate coupling rod	2 Oct 1953	24 Jul 1958	Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-487	FALSE
112	C	38030		Coupling rod	22 Oct 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-489	FALSE
112	C	38066		Piston crosshead	15 Feb 1954	18 Oct 1955	Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-L-194	FALSE
112	C	38024		Alternative method of erecting dragbox to suit facilities at Crewe	20 May 1952	15 Nov 1956	Class 07 WD 2-8-0 Austerity	Doncaster drawing no. Z-282	FALSE
112	C	38021		Alteration to back dragbox (engine)	3 Dec 1951	6 Feb 1957	Class 07 WD 2-8-0 Austerity	Doncaster drawing no. D-59	FALSE
112	C	38025		Arrangement of boiler	12 Apr 1950		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. N-1227	FALSE
112	C	38026		Arrangement of BR clackbox as fitted to WD 2-8-0	7 Sep 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-N-1307	FALSE
147	C	32758		Pipe arrangement - end views	14 Jul 1936	14 Aug 1952	LMS class 5 4-6-0	Gold tracing	FALSE

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Box No	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
147	C	32757		Elevation and plan	14 Jul 1936	8 Dec 1953	LMS class 5 4-6-0	Gold tracing	FALSE
147	C	32719		Engine balancing sheet no. 2	23 Apr 1936		LMS class 5 4-6-0 nos 5225 - 5451 built by Armstrong Whitworth and Co	Gold tracing	FALSE
147	C	32706		Engine balancing sheet no. 2	16 Jan 1935		Standard 2-8-0 2 cylinder goods locomotives	Gold tracing	FALSE
147	C	32686		Back plate and mountings - taper boiler	7 Apr 1936	12 Jan 1940	LMS class 5 4-6-0	Gold tracing	FALSE
147	C	33302		Arrangement of smokebox with 3-row superheater elements	3 Aug 1937	25 Oct 1954	Standard 2-8-0 2 cylinder goods locomotives, nos. 8000-8011	Gold tracing	FALSE
147	C	33097		Boiler arrangement	7 Jan 1937	14 Nov 1956	LMS class 5 4-6-0	Gold tracing	FALSE
147	C	32740		Smokebox arrangement	27 May 1936	25 Oct 1954	LMS class 5 4-6-0	Gold tracing	FALSE
147	C	32668		Bogie arrangement	14 Apr 1936	7 Feb 1955	LMS class 5 4-6-0	Gold tracing	FALSE
147	C	32589		Cab arrangement	25 Feb 1936	15 Nov 1960	LMS class 5 4-6-0	Gold tracing	FALSE
147	C	32512		General arrangement of pony truck	1 Feb 1936	7 Dec 1960	Standard 2-8-0 2 cylinder goods locomotives	Gold tracing	FALSE
147	C	32130		Firebox arrangement	2 Aug 1935	19 Sep 1949	Standard 2-8-0 2 cylinder goods locomotives	Gold tracing	FALSE
147	C	31024		Firebox arrangement	26 Jan 1934	19 Sep 1949	Standard 2-8-0 2 cylinder goods locomotives	Gold tracing	FALSE
147	C	30963		Firebox arrangement	22 Dec 1933	14 Nov 1956	LMS class 5 4-6-0	Gold tracing	FALSE
148	C	33448		Arrangement of welded tank	8 Jan 1938	Mar 1961	4000 gallon tender with increased coal capacity	Gold tracing	FALSE
148	C	32498		Frame arrangement	25 Feb 1936	7 Dec 1960	Standard 2-8-0 2 cylinder goods locomotives	Gold tracing	FALSE
148	C	33895		Firebox arrangement	2 Aug 1935	23 Mar 1955	Standard 2-8-0 2 cylinder goods locomotives	Gold tracing	FALSE
148	C	33752		Smokebox arrangement	7 Jul 1938	25 Oct 1954	Standard 2-8-0 2 cylinder goods locomotives	Gold tracing	FALSE
148	C	33889		Firebox arrangement	30 Jul 1935	14 Nov 1956	LMS class 5 4-6-0	Gold tracing	FALSE
148	C	33815		Pipe and rod arrangement, elevation and plan	16 May 1938	15 Nov 1960	LMS class 5 4-6-0	Gold tracing	FALSE
148	C	33810		Frame arrangement	8 Sep 1938	15 Nov 1960	LMS class 5 4-6-0	Gold tracing	FALSE
148	C	33435		Frame arrangement	15 Oct 1937	15 Nov 1960	LMS class 5 4-6-0	Gold tracing	FALSE
148	C	31557		Boiler arrangement	30 Oct 1934	3 Feb 1953	Royal Scot no. 6170 - the first taper boiler Royal Scot, rebuild of h.p. loco "Fury"		FALSE

Main Series Microfilm List

Prefix	Number	Suffix	Title	Date	Scale	Notes
C	29119	1	5'-0" Six Wheels Coupled Compound Four Cylinder Goods Engine	1903/04/01	1½"-1ft	Frame 1 of 2; outline side elevation drawing of engine number 1400
C	29119	2	5'-0" Six Wheels Coupled Compound Four Cylinder Goods Engine	1903/04/01	1½"-1ft	Frame 2 of 2; outline side elevation drawing of engine number 1400
C	29135	1	5'-0" Six Wheels Coupled Compound Four Cylinder Goods Engine [First Engine Built	1907/02/22	1½"-1ft	Frame 1 of 2; general arrangement, elevation and sections
C	29135	2	5'-0" Six Wheels Coupled Compound Four Cylinder Goods Engine [First Engine Built	1907/02/22	1½"-1ft	Frame 2 of 2; general arrangement, elevation and sections
C	29136	1	5'-0" Six Wheels Coupled Compound Four Cylinder Goods Engine	1906/07/09	1½"-1ft	Frame 1 of 2; general arrangement, plan and elevation
C	29136	2	5'-0" Six Wheels Coupled Compound Four Cylinder Goods Engine	1906/07/09	1½"-1ft	Frame 2 of 2; general arrangement, plan and elevation
C	31557	1	Boiler Arrangement [LMS 4-6-0]	1941/01/07	Not clear	Poor quality original, copied from faded gold tracing [6170 project] Frame 1 of 2
C	31557	2	Boiler Arrangement [LMS 4-6-0]	1941/01/07	Not clear	Poor quality original, copied from faded gold tracing [6170 project] Frame 1 of 2
C	31652	1	Firebox Arrangement [6170]	1935/01/24	3"-1ft	LMS 6170 project; Frame 1 of 2
C	31652	2	Firebox Arrangement [6170]	1935/01/24	3"-1ft	LMS 6170 project; Frame 2 of 2
C	31687	1	Arrangement of Smokebox [6170]	1935/08/23	3"-1ft	Frame 1 of 2; LMS 6170 Project
C	31687	2	Arrangement of Smokebox [6170]	1935/08/23	3"-1ft	Frame 2 of 2; LMS 6170 Project
C	31750	1	Alterations to Cab: 4-6-0 Royal Scot 6399	No date	Various	Frame 1 of 2; LMS 6170 Project
C	31750	2	Alterations to Cab: 4-6-0 Royal Scot 6399	No date	Various	Frame 2 of 2; LMS 6170 Project
C	31790	1	Alterations to Frame: 4-6-0 Royal Scot with tapered boiler, 6170	1935/03/14	1½"-1ft	Frame 1 of 2: LMS 6170 Project
C	31790	2	Alterations to Frame: 4-6-0 Royal Scot with tapered boiler, 6170	1935/03/14	1½"-1ft	Frame 2 of 2: LMS 6170 Project
C	32004		Arrangement of Backplate & Mountings: Royal Scot Tapered Boiler 6170	1935/09/07	3"-1ft	LNMS 6170 Project
C	32027	1	Part Outside Motion Arrangement (Front End): Royal Scot Tapered Boiler 6170	1935/06/17	3"-1ft	Frame 1 of 2: LMS 6170 Project

Main Series Microfilm List

Prefix	Number	Suffix	Title	Date	Scale	Notes
C	32027	2	Part Outside Motion Arrangement (Front End): Royal Scot Tapered Boiler 6170	1935/06/17	3"-1ft	Frame 2 of 2: LMS 6170 Project
C	32028	1	Part Inside Motion Arrangement (Front End): Royal Scot Tapered Boiler 6170	1935/09/30	3"-1ft	Frame 1 of 2: LMS 6170 Project
C	32028	2	Part Inside Motion Arrangement (Front End): Royal Scot Tapered Boiler 6170	1935/09/30	3"-1ft	Frame 2 of 2: LMS 6170 Project
C	32068	1	Cab Arrangement: Royal Scot Tapered	1935/09/03	Various	Frame 1 of 2: LMS 6170 Project
C	32068	2	Cab Arrangement: Royal Scot Tapered	1935/09/03	Various	Frame 2 of 2: LMS 6170 Project
C	32089	1	Clothing Arrangement: 4-6-0 Royal Scot	1935/10/07	1½"-1ft	Frame 1 of 2: LMS 6170 Project
C	32089	2	Clothing Arrangement: 4-6-0 Royal Scot	1935/10/07	1½"-1ft	Frame 2 of 2: LMS 6170 Project
C	32295	1	Pipe & Rod Arrangement Elevation and Plan: Royal Scot with Tapered Boiler 6170	1935/10/16	1½"-1ft	Frame 1 of 2: LMS 6170 Project
C	32295	2	Pipe & Rod Arrangement Elevation and Plan: Royal Scot with Tapered Boiler 6170	1935/10/16	1½"-1ft	Frame 2 of 2: LMS 6170 Project
C	32296		Pipe & Rod Arrangement End Views: Royal Scot Tapered Boiler 6170	1935/10/17	1½"-1ft	LMS 6170 Project
SL/CR	39119		Details of Platform Support Spare Boiler 2-10-0: Crosti Conversion	No date	Full size	Poor quality original, paper creased and detail faint
C	6220		The 'Rocket', General Arrangement	1892/09/23	1½"-1ft	
C	7527		2000 Gallon Tank for Standard Tender	1893/10/16	1½"-1ft	
C	10118		Tender for 7ft Compound Engine 8	1894/06/23	1½"-1ft	
C	16825		6'-0" Four Wheels Coupled Side Tank Engine, Cylinders 19" Dia, 26" Stroke	1906/03/23	1½"-1ft	
C	17059		5'-0" Six Coupled Goods Engine, Cylinders 19" Diam, 26" Stroke	1906/10/19	1½"-1ft	
C	18468		5'-6" Six Coupled Side Tank Engine (with Superheater), cylinders 20" Dia, 26" stroke	1911/01	1½"-1ft	Frame 1 of 2
C	18468		5'-6" Six Coupled Side Tank Engine (with Superheater), cylinders 20" Dia, 26" stroke	1911/01	1½"-1ft	Frame 2 of 2

Main Series Microfilm List

Prefix	Number	Suffix	Title	Date	Scale	Notes
C	18782		Standard 3000 Gallon Tender (old pattern without sloping bunker) Fitted with Vacuum Brake Sack and Reservoir	1912/02/12	1½"-1ft	
C	18818		Cloughton Class 6'-6" Six Coupled Passenger Engine, Detail of Coupling Rods	No date	Full size	
C	18859		6'-6" Six Coupled Passenger Engine (4 Cylinders), Connecting Rod for Inside	1912/05/04	Full size	
C	18860		6'-6" Six Coupled Passenger Engine (4 Cylinders), Connecting Rod for Outside	1912/05/04	Full size	
C	18871		6'-6" Six Coupled Passenger Engine (4 Cylinders), Detail of Valve Rocking Lever &	1912/05/22	Various	
C	18881		Cloughton 6'-6" Six Coupled Passenger Engine (4 Cylinders), Details of Boiler	1912/05/25	Various	
C	18887		6'-6" 4 Wheel Coupled Passenger Engine (Straight Link), Detail of Driving & Trailing	1912/06/03	3"-1ft	
C	18931		Cloughton Class 6'-6" Six Coupled Passenger Engine (4 Cylinders), Details of Reversing	1912/08/02	Full size	
C	18935		Cloughton Class 6'-6" Six Coupled Passenger Engine (4 Cylinders), Detail of Combining Lever, Crosshead Lever & Union Link	1912/08/07	Full size	
C	18951		Cloughton Class 6'-6" Six Coupled Passenger Engine (4 Cylinders), Splashes & Lagging	1912/09/04	Various	
C	19790		Prince of Wales Class, 6'-0" Six Coupled Passenger Engine Superheated, Cylinders	1912/10/08	1½"-1ft	elevations and sections
C	19790		Prince of Wales Class, 6'-0" Six Coupled Passenger Engine Superheated, Cylinders	1920/10/20	1½"-1ft	elevations and sections
C	20310		4'-3" Six Coupled Side Tank Coal Engine Fitted with 24" Vacuum Sack	1918/02/15	1½"-1ft	

Main Series Microfilm List

Prefix	Number	Suffix	Title	Date	Scale	Notes
C	20752		6'-6" Four Cylinder Passenger Engine 'George the Fifth' Class fitted with Weir's Feed Pump and Feed Water Heater,	1920/01/09	1½"-1ft	
C	20977		Claughton Class 6'-6" Six Cylinder Passenger Engine (4 cylinders), General arrangement of 'Water Circulator' in Fire box	1920/10/15	1½"-1ft	
C	21250		6'-0" Six Cylinder 'Prince of Wales' Class, fitted with Davies & Metcalfe's 9mm Exhaust Steam Injector, General	1921/08/23	1½"-1ft	
C	25879		2000 Gallon Locomotive Tender	1900/08/20	1½"-1ft	
C	27389		3000 Gallon Tender (with Sloping Bunker)	1916/06	1½"-1ft	
C	27974		5ft 6in Four Wheels Coupled, 8 wheeled Side Tank Engine, Cylinder 17" Dia, 24"	1894/04/11	1½"-1ft	
C	28288		4ft 6in Four Wheels Coupled, 8 wheeled Side Tank Engine, Cylinder 17" Dia, 20"	1894/04/11	1½"-1ft	
C	28289		4ft 6in Four Wheels Coupled, 8 wheeled Side Tank Engine, Cylinder 17" Dia, 20" stroke: Cross Sections & End Views	1894/04/11	1½"-1ft	
C	28547		5'-6" Six Coupled Side Tank Engine (without superheater), cylinders 18½" Dia, 26"	1911/04/05	1½"-1ft	Frame 1 of 2
C	28547		5'-6" Six Coupled Side Tank Engine (without superheater), cylinders 18½" Dia, 26"	1911/04/05	1½"-1ft	Frame 2 of 2
C	28459		5'-6" Six Coupled Tank Engine (with superheater), cylinders 20" Dia, 26" stroke	1911	1½"-1ft	
C	28513		6'-6" Four Cylinder 'George the Fifth' Class fitted with Scarab Oil Fuel System, General	1921/04/16	1½"-1ft	
C	28811		4ft 3in Four Wheels Coupled Shunting	1896/11/18	1½"-1ft	
C	28813		5'-0" Six Coupled Goods Engine, Cylinders 19" Dia, 26" stroke	1906/10/19	1½"-1ft	

Main Series Microfilm List

Prefix	Number	Suffix	Title	Date	Scale	Notes
C	28851		6'-0" Four wheels coupled Side Tank Engine, cylinders 19" dia, 26" stroke, end views	1906/03/31	1½"-1ft	
C	28852		6'-0" Four wheels coupled Side Tank Engine, cylinders 19" dia, 26" stroke; plan and	1907/03/07	1½"-1ft	Frame 1 of 2
C	28852		6'-0" Four wheels coupled Side Tank Engine, cylinders 19" dia, 26" stroke; plan and	1907/03/07	1½"-1ft	Frame 2 of 2
C	28866		4ft 3in 8 wheeled Coal Side Tank Engine, Cross Section and End views	1894/04/11	1½"-1ft	
C	29119		5'-0" Six Wheels Coupled Compound Four Cylinder Goods Engine	1903/04/01	1½"-1ft	Side elevation
C	29120		7'-0" Four Wheels Coupled Compound Passenger Engine	1904/06/08	1½"-1ft	
C	29122		7'-0" Four Wheels Coupled Compound Passenger Engine	1901/06	1½"-1ft	plan and elevation
C	29123		6ft Four Wheels Coupled Passenger Engine	1894/04	1½"-1ft	Plan and elevation
C	29124		7ft Compound Passenger Engine, Eight	1891/10/22	1½"-1ft	End views
C	29127		4ft 3in Eight Wheeled Coupled Coal Engine	1892/10/23	1½"-1ft	End views
C	29130		4ft 3in Eight Wheels Coupled Four Cylinder Compound Coal Engine	No date	1½"-1ft	Side and end views
C	29131		4ft 3in Eight Wheels Coupled Four Cylinder Compound Coal Engine	1901/09	1½"-1ft	Plan and elevation
C	29134		4ft 3in Eight Coupled Coal Engine Class D	1906/03	1½"-1ft	End views
C	30333		Dundalk, Newry & Greenore Railway, 5'-0" Six wheels coupled Saddle Tank Engine, 5ft	1888/08/02	1½"-1ft	
C	31482		Pipe Arrangement (Elevation and Plan) for 2 cylinder 2-8-0 Superheated Freight Engine	1934/12/21	1½"-1ft	Frame 1 of 2
C	31482		Pipe Arrangement (Elevation and Plan) for 2 cylinder 2-8-0 Superheated Freight Engine	1934/12/21	1½"-1ft	Frame 2 of 2
C	31483		Pipe Arrangement (End Views) for 2 cylinder 2-8-0 Superheated Freight Engine	1934/12/21	1½"-1ft	

Main Series Microfilm List

Prefix	Number	Suffix	Title	Date	Scale	Notes
C	32205		6ft Compound Passenger Engine, eight	1894/03/25	1½"-1ft	Plan and elevation
C	32296		Pipe and Rod Arrangement, End Views, Royal Scot Taper Boiler	1935/10/17	1½"-1ft	
C	32299		6ft Compound Passenger Engine, Eight Wheeled, End Views	1894/03/25	1½"-1ft	
C	32342		Eight Wheeled Side Tank Compound Passenger Engine (FW Webb's System),	1888/09	1½"-1ft	Frame 1 of 2
C	32342		Eight Wheeled Side Tank Compound Passenger Engine (FW Webb's System),	1888/09	1½"-1ft	Frame 2 of 2
C	32439		5ft Compound Goods Tank Engine, plan and	1887/07/09	1½"-1ft	
C	32454		5'-9" Metropolitan Side Tank Engine (Rebuilt), plan and elevation	1895/03/24	1½"-1ft	
C	32456		7ft Compound Passenger Engine, Eight Wheeled (Queen Empress, 3435) side	1894/06/23	1½"-1ft	
C	32481		7ft Four wheels coupled Passenger Engine, 4 cylinders, (Iron Duke), part elevation and	1897/05	1½"-1ft	Jubilee Class
C	32522		Pipe & Rod Arrangement (elevation and plan) for 2 cylinder 2-8-0 Freight Engine with taper boiler and sloping throat	1936/03/07	1½"-1ft	Frame 1 of 2
C	32522		Pipe & Rod Arrangement (elevation and plan) for 2 cylinder 2-8-0 Freight Engine with taper boiler and sloping throat	1936/03/07	1½"-1ft	Frame 2 of 2
C	32523		Pipe & Rod Arrangement (end views) for 2 cylinder 2-8-0 Freight Engine with taper	1936/03/31	1½"-1ft	
C	32594		Pipe & Rod Arrangement (elevation and plan) for 2 cylinder 4-6-0 Mixed Traffic Engine with NS taper boiler and sloping	1936/02	1½"-1ft	Frame 1 of 2
C	32594		Pipe & Rod Arrangement (elevation and plan) for 2 cylinder 4-6-0 Mixed Traffic Engine with NS taper boiler and sloping	1936/02	1½"-1ft	Frame 2 of 2 - some fading of original

Main Series Microfilm List

Prefix	Number	Suffix	Title	Date	Scale	Notes
C	32595		Pipe & Rod Arrangement (end views) for 2 cylinder 4-6-0 Mixed Traffic Engine with NS taper boiler and sloping throat plate	1936/02	1½"-1ft	some fading of original
C	32861		Pipe & Rod Arrangement for 2 cylinder 2-8-0 superheated freight engine (end views)	1937/08/07	1½"-1ft	
C	33426		General Arrangement for 4000 Gallon tender (streamlined)	1937/09/15	1½"-1ft	Frame 1 of 2
C	33426		General Arrangement for 4000 Gallon tender (streamlined)	1937/09/15	1½"-1ft	Frame 2 of 2
C	33808		Pipe & Rod Arrangement (elevation and plan) for 2 cylinder 2-8-0 Freight Engine with taper boiler & sloping throat plate	1938/08/29	1½"-1ft	Frame 1 of 2
C	33808		Pipe & Rod Arrangement (elevation and plan) for 2 cylinder 2-8-0 Freight Engine with taper boiler & sloping throat plate	1938/08/29	1½"-1ft	Frame 2 of 2
C	33809		Pipe & Rod Arrangement (end views) for 2 cylinder 2-8-0 Freight Engine with taper boiler & sloping throat plate	1938/08/29	1½"-1ft	
C	34222		General Arrangement for 4000 Gallon	1940/01/19	1½"-1ft	Frame 1 of 2
C	34222		General Arrangement for 4000 Gallon	1940/01/19	1½"-1ft	Frame 2 of 2
C	34422		Pipe & Rod Arrangement (elevation and plan) for 2 cylinder 2-8-0 Freight Engine with taper boiler & sloping throat	1940/05/23	1½"-1ft	Frame 1 of 2
C	34422		Pipe & Rod Arrangement (elevation and plan) for 2 cylinder 2-8-0 Freight Engine with taper boiler & sloping throat	1940/05/23	1½"-1ft	Frame 2 of 2
C	34874		Pipe & Rod Arrangement (end views) for 2 cylinder 2-8-0 Freight Engine with taper	1941/04/21	1½"-1ft	
C	34908		5ft 0in Six wheels coupled Side Tank Engine, cross sections and end views	1898/05/15	1½"-1ft	

Main Series Microfilm List

Prefix	Number	Suffix	Title	Date	Scale	Notes
C	35385		Pipe & Rod Arrangement End Views: 2 cylinder 2-8-0 Freight Engine with Taper	1942/08/05	1½"-1ft	
C	35715		Four wheels coupled Passenger Engine 16in cylinder 20 in stroke, 6ft driving wheel	1864/03	1½"-1ft	Copy of original drawing
C	35742		7ft Compound Passenger Engine elevation	1890/03	1½"-1ft	
C	35746		4ft 3in Eight Wheels Coupled Compound Coal Engine general arrangement	1893/08	1½"-1ft	
C	37263		7ft Compound Passenger Engine 'Jeanie Deans' outline drawing	1890/05/08	1½"-1ft	
C	38016		1'-6" Gauge Tramway Locomotive 'Pet'	No date	3"-1ft	
C#3	00001	Un-numbered	Plan and elevation (front end only) 4'-3" eight coupled coal engine Class C	1910/02	1½"-1ft	
C#3	00002	Un-numbered	Side view for 0-6-0 Locomotive and Tender, outline showing exhaust pipe arrangement	No date		
C#3	00003	Un-numbered	4'-3" Six Wheels Coupled Saddle Tank Coal Engine elevations	1904/02/12	1½"-1ft	
C#3	00004	Un-numbered	Engine for Steam Rail Motor Coach 11" cylinders 16" stroke	1911/02/20	1½"-1ft	First engine built June 1910
C#3	00006	Un-numbered	7ft-0ins Four Wheels Coupled Compound Passenger Engine, 'Black Prince', general arrangement	1897/05/01	1½"-1ft	
C#3	00008	Un-numbered	Elevation and Sections for Diagram of Six Wheels Coupled Goods Engine	No date	3"-1ft	Frame 1 of 3

Main Series Microfilm List

Prefix	Number	Suffix	Title	Date	Scale	Notes
C#3	00008	Un-numbered	Elevation and Sections for Diagram of Six Wheels Coupled Goods Engine	No date	3"-1ft	Frame 2 of 3
C#3	00008	Un-numbered	Elevation and Sections for Diagram of Six Wheels Coupled Goods Engine	No date	3"-1ft	Frame 3 of 3

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
113	C#3	00001	A81	Part elevation and plan	5 Apr 1911		4'3" 8 coupled coal engine class G		FALSE
113	C#3	00002		Elevation	none		6 wheeled coupled tender engine		FALSE
113	C#3	00003	A69	Side and half front and back elevations	12 Feb 1904		4'3" 6 wheels coupled saddle tank coal engine		FALSE
113	C#3	00004	C118	Elevations and plan	20 Feb 1911		Engine for steam rail motor coach		FALSE
113	C#3	00005		Section	none		LNWR rail wagon	Loaded with 85-ton gun	FALSE
113	C#3	00006	A58	Elevations	1 May 1897		7'0" 4 wheels coupled compound passenger engine		FALSE
113	C#3	00007		Detail of wire rope blocks	23 Mar 1903		30-ton travelling crane	For use in SW iron foundry	FALSE
113	C#3	00008		Elevations	none		6 wheels coupled good engine		FALSE
114	C50	00009	B1	Leading sand box and details	2 Oct 1882		18" cylinder goods engine		FALSE
114	C50	00010		Crosshead	1 Sep 1882		6'6" compound engine		FALSE
114	C50	00011		Details of footbridge at Atherstone	3 Aug 1882		Footbridge		FALSE
114	C50	00012		Details of footbridge at Atherstone	2 Aug 1882		Footbridge over 2 lines		FALSE
114	C50	00013		Slide valve and buckle for large cylinder	4 Apr 1882		Compound engine experiment		FALSE
114	C50	00014	D51	Low pressure cylinder	3 Mar 1882		Compound engine experiment		FALSE
114	C50	00015		Position of holes in plates	21 Oct 1881		not specified		FALSE
114	C50	00016		Position of lubricators, steam pipe and safety valve on steam chest cover	30 Nov 1881		not specified		FALSE
114	C50	00017		Details of hand wheel for continuous brake	11 Oct 1881		not specified		FALSE
114	C50	00018		Connecting rod	6 Aug 1881		6'6" compound passenger engine		FALSE
114	C50	00019		Slide bars, piston and rod	3 Aug 1881		not specified		FALSE
114	C50	00020		Details of wrought iron work for continuous brake	22 Jul 1889		not specified		FALSE
114	C50	00021		Friction drums for continuous brake	17 Jul 1879		not specified		FALSE
114	C50	00022		Details of continuous brake	9 Jul 1879		Guards' van		FALSE
114	C50	00023		Details of continuous brake	8 Jul 1879		Guards' van		FALSE
114	C50	00024		Details of friction drum for brake cradle	28 Jun 1879		Vans		FALSE
114	C50	00025		Frictions drums for continuous brake gear	26 Jun 1878		Metropolitan engines - Beyer and Peacock class		FALSE
114	C50	00026		Pins for brake van gear, new wire rope carriage brake	3 May 1878		Vans		FALSE
114	C50	00027		Details of new carriage brake	12 Apr 1878		Carriages		FALSE
114	C50	00028		Steel drums	11 Apr 1878		not specified		FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
114	C50	00029		Cab	6 Mar 1876		4'6" 4 wheels coupled side tank engine		FALSE
114	C50	00030		Piston and connecting rod	16 Jul 1868		Carriage department, Wolverton		FALSE
114	C50	00031	H822	Feed pump for dwarf locomotive	21 May 1864		"Tiny" class (inside cylinders)		FALSE
114	C50	00032		Eccentric and pump rods	15 Feb 1859		Goods and passenger engines		FALSE
114	C50	00033		Boiler	26 Sep 1882		6'6" compound passenger engine		FALSE
114	C50	00034		Details of reversing gear for high pressure cylinder	26 Jan 1883		6'6" compound passenger engine		FALSE
114	C50	00035	K32	Vacuum brake cylinder and automatic taking-up gear	16 Jan 1883		Carriages		FALSE
114	C50	00036		Footbridge	6 Jun 1883		Davenport station		FALSE
114	C50	00037		Diagram of girders	5 Dec 1882		Inclined approach for Runcorn bridge		FALSE
114	C50	00038		Footbridge	19 Jun 1883		Abergele station		FALSE
114	C50	00039		Footbridge	2 Jun 1883		Alderley Edge station		FALSE
114	C50	00040		Distance piece for cylinder cover	17 Nov 1881		not specified		FALSE
114	C50	00041		Elevation and plan	21 Dec 1883		50-ton bogie trolley		FALSE
114	C50	00042		Side elevation	27 Dec 1883		4'6" 8 wheeled side tank compound passenger engine		FALSE
114	C50	00043		General arrangement of Westinghouse air brake connected to vacuum brake	5 Oct 1883		West Coast Joint Stock carriages		FALSE
114	C50	00044		Standard carriage coupling	11 May 1883		Carriages		FALSE
114	C50	00045	K31	Vacuum brake - 2 1/4" ejector	31 Mar 1883		not specified		FALSE
114	C50	00046	K44	Controlling springs for radial trucks 42-ft carriage frame	6 Mar 1883		Carriages		FALSE
114	C50	00047	D32	Arrangement and details of cylinder cock gear for h.p. cylinders	8 Feb 1883		6'6" compound engine		FALSE
114	C50	00048		Lattice girders for extension of Sandy footbridge	9 Feb 1883		Footbridge		FALSE
114	C50	00049		Footbridge at Earlstown Junction	8 Feb 1883		Footbridge		FALSE
114	C50	00050	D33	Arrangement and details of cylinder cock gear for l.p. cylinders	14 Feb 1883		6'6" compound engine		FALSE
114	C50	00051		Steps for standard footbridges over two and four lines of rails	23 Jan 1883		Footbridges		FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
114	C50	00052		Standard footbridge over four lines without platform	22 Jan 1883		Footbridge		FALSE
114	C50	00053	D62	Motion plates	17 Nov 1882		6'6" compound engine		FALSE
114	C50	00054	D44	Crosshead for h.p. cylinder	11 Nov 1882		6'6" compound engine		FALSE
114	C50	00055		Motion plates	25 Oct 1882		6'6" compound engine		FALSE
114	C50	00056		Trailing crank pin	13 Oct 1882		6'6" compound engine		FALSE
114	C50	00057	D22	Connecting rod	13 Oct 1882		6'6" compound engine		FALSE
114	C50	00058		Frame plates	6 Oct 1882		6'6" compound engine		FALSE
114	C50	00059		Slide bars and piston rod	3 Oct 1882		6'6" compound engine		FALSE
114	C50	00060		Details of valve motion	2 Oct 1882		6'6" compound engine		FALSE
115	C51	00061	K76	Radial truck for 42 feet carriage frames, F.W. Webb's system	3 Sep 1889		Carriages	see also C00080	FALSE
115	C51	00062	H106	List of special and standard bolts	17 Aug 1889		1800-gallon passenger and goods tender		FALSE
115	C51	00063	K75	Railway carriage lamp	16 Aug 1889		Carriage lamp		FALSE
115	C51	00064	H101	Detail of outside firebox plates	22 Jul 1889		Boiler with steel circular firebox		FALSE
115	C51	00065	H90 ?	Standard foundation ring for locomotive fireboxes	3 May 1889		Locomotive fireboxes		FALSE
115	C51	00066	14-23	General arrangement of reversing gear for valves of 20in: low pressure cylinder	16 Apr 1889		7' compound passenger engine		FALSE
115	C51	00067	H70	17" x 24" cylinders	20 Jun 1888		Outside cylinder engines		FALSE
115	C51	00068	H63	Leading spring	31 Aug 1888		5' compound goods tank engine		FALSE
115	C51	00069	H4	Standard coupling (trailing end)	12 Aug 1887		Special tank engines		FALSE
115	C51	00070	H47	Detail of handrail brackets	5 Aug 1887		Various classes of engine		FALSE
115	C51	00071	K60	Cast iron steel and malleable iron castings for carriages	6 Jul 1887		Carriages		FALSE
115	C51	00072	R31	Ship's rudder and fittings	23 Ap 1887		Ship's rudder		FALSE
115	C51	00073	R31	Ship's sections	23 Ap 1887		Ship		FALSE
115	C51	00074	E16	Leading sand gear and hand rail & vacuum pipe brackets	none		18" goods engine		FALSE
115	C51	00075	13-59	Diagrams of standard types of LNWR locomotives	9 Sep 1886		9 classes of Webb locomotive		FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
115	C51	00076	H41	Arrangement of large and small ejectors	15 Jun 1885		Various classes of engines		FALSE
115	C51	00077	H18	Boiler	22 May 1885		3 cylinder tramway locomotive		FALSE
115	C51	00078	K16	Vacuum brake for four way balanced valve	13 Oct 1884		Automatic brake for van		FALSE
115	C51	00079		Details of reversing gear	none		6'6" compound engine		FALSE
115	C51	00080	K45A	Buffer spring for 42ft carriage frame	1 Oct 1886		42ft carriage frame	see also C00061	FALSE
115	C51	00081	K10	Vacuum brake: general arrangement for pressure and vacuum	9 Aug 1884		Fruit stock vans		FALSE
115	C51	00082	A3	Elevations	Jan 1884		Grand Trunk RR, Canada, Compound Express Loco		FALSE
115	C51	00083	14-32	Low pressure slide valve and buckle	20 Apr 1891		6' and 7' compound passenger engine		FALSE
115	C51	00084	J47	Diagrams of experimental trips between Crewe and Stafford	1 Apr 1894		4'3" 8 WC compound and non-compound coal engine	Nos. 2524 (non-comp) and 50	FALSE
115	C51	00085	47	Diagrams of experimental trips between Crewe and Stafford	1 Apr 1894		4'3" 8 WC compound and non-compound coal engine	Nos. 2524 (non-comp) and 50 (same as 00085 - paper)	FALSE
115	C51	00086	J47	Diagrams of experimental trips between Crewe and Stafford	1 Apr 1894		4'3" 8 WC compound and non-compound coal engine	Nos. 2524 (non-comp) and 50 (same as 00085)	FALSE
115	C51	00087	13-66A	Diagram sheet of brass boiler mountings	19 Apr 1893		Standard fittings		FALSE
115	C51	00088	K109	Automatic vacuum brake - general arrangement end views and cross section	15 Jun 1892		7' 8 wheeled compound engine		FALSE
115	C51	00089	K111	Diagram of steam brake cylinders	24 May 1892		36 classes of engine		FALSE
115	C51	00090	13-60	Diagram showing application of beading to the panel plates next to firebox	2 Feb 1892		Not specified		FALSE
115	C51	00091	14-26	General arrangement of high pressure and low pressure motion	2 Jan 1891		7' compound passenger engine	In pencil "Teutonic class - 6 wheeled")	FALSE
115	C51	00092	14-29	List of pins and studs	21 Jun 1890		7' compound passenger engine		FALSE
115	C51	00093	14-28	List of pins and studs	21 Jun 1890		7' compound passenger engine		FALSE
115	C51	00094	K45	Arrangement of double back valves	19 Dec 1890		12 classes of engines		FALSE
116	C52	00095		Alterations required to coal engines rebuilt with 18" goods boiler	9 Jul 1887		Coal engine rebuilt with water ashpan		FALSE
116	C52	00096	14-14	Details of low pressure reversing gear	17 Jan 1880		7' compound passenger engine		FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
116	C52	00097	H79	Experimental steel firebox	16 Apr 1888		Not specified		FALSE
116	C52	00098		Steel firebox	12 Mar 1885		Coal engine		FALSE
116	C52	00099	A26	Side elevation	12 Nov 1886		5'6" compound side tank engine, no. 3000	HP cyls 14"x20", LP cyls 26"x24"	FALSE
116	C52	00100	A25	Side elevation	30 Oct 1886		5'6" compound side tank engine, no. 3000	HP cyls 14"x20", LP cyls 26"x24"	FALSE
116	C52	00101	A19B	Side elevation	23 Oct 1886		6' compound side tank engine, no. 3000	HP cyls 14"x20", LP cyls 26"x24"	FALSE
116	C52	00102	A13	Side elevation	21 Apr 1884		6' compound passenger engine, "Triad" no. 2800		FALSE
116	C52	00103	A12	Side elevation	4 Mar 1884		6' compound passenger engine, "Triad" no. 2800	In pencil "old view"	FALSE
116	C52	00104	E4	Reversing screw bracket	9 Sep 1886		18" cylinder goods engine		FALSE
116	C52	00105		Proposed 32ft carriage frame	12 Jul 1886		32ft carriage	Given colour wash from behind	FALSE
116	C52	00106	R3A	S.U. steel canal boats, 70' long, 6'10" beam	20 Jan 1888		S.U. canal boat	S.U.: Shropshire \Union?	FALSE
116	C52	00107		Alterations to boat, 70' long, 14' 5 1/2" width	23 Apr 1887		Boat		FALSE
116	C52	00108	R29	S.U. canal boat, 70' long, 6'10" beam	14 Feb 1887		S.U. canal boat	S.U.: Shropshire \Union?	FALSE
116	C52	00109		Side elevation	22 Jan 1884		Grand Truck RR, Canada, compound express loco		FALSE
116	C52	00110		Cutaway side and floor elevations	22 Jan 1884		Grand Truck RR, Canada, compound express loco		FALSE
116	C52	00111	14-13	Details of high pressure reversing gear	1 Jan 1889?		7' compound passenger engine		FALSE
116	C52	00112		Boiler	9 Jul 1890		5'6" 4 wheels coupled side tank passr. engine		FALSE
116	C52	00113	14-30	List of standard and special bolts &c.	21 Jun 1890		7' compound passenger engine		FALSE
116	C52	00114	A40	Side elevation	25 Oct 1892		4'3" 8 wheels coupled coal engine, no 2524	Cyls. 19 1/2 dia x 24" stroke	FALSE
116	C52	00115	A37	Diagram	1 Aug 1892		6'0" 4 wheels coupled passr. engine (curved sink)		FALSE
116	C52	00116	J46	Diagram of trip with 57 loaded coal wagons and 3 brake vans between Rugby and Willesden	24 Jul 1893		8 wheels coupled coal engine, no 2524	Weight 766t 12c 1q, length 1263' 6"	FALSE
116	C52	00117	J47	Diagrams of experimental trips between Crewe and Stafford, engines & trains as leaving Crewe on 1st trip	1 Apr 1894		4'3" 8 WC compound and non-compound coal engines	Nos. 2524 (non-comp) and 50 (compound)	FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
117	C52	00118	13-56	Diagram of locomotive driving wheel	18 Jun 1897		Not specified - detail of letter R to be stamped	Very small drawing	FALSE
117	C52	00119	H195	Standard ash-pan bolts	22 Feb 1895		10 classes of engine	Very small drawing	FALSE
117	C52	00120	H142a	Standard 9mm restarting injector covers	9 Sep 1895		Standard fitting		FALSE
117	C52	00121	13-65	Diagram showing method of connecting up steam brake for various classes of engine	22 Feb 1895		13 classes of engine, lettered A, B and C		FALSE
117	C52	00122	H233	Standard 8mm and 9mm auto restarting injector	9 Nov 1896		Standard fitting		FALSE
117	C52	00123	H234	Spindles for locomotive sandboxes - diagram showing angles of keyways for levers	18 Jan 1897		21 classes of engine		FALSE
117	C52	00124	13-69	Diagram of locomotive boiler	22 Sep 1895		A11 class		FALSE
117	C52	00125	14-39	Diagram of low pressure connecting rod	12 Nov 1897		7'0" 4 wheels coupled compound passenger engine		FALSE
117	C52	00126	J53	Line section between Crewe and Leeds	26 Nov 1896		Gradient diagram		FALSE
117	C52	00127		Diagram of gradients between Willesden Jct and Broad St. by alternative routes	<2 Dec 1897		Gradient diagram	Copied from Engineer's Office, Euston	FALSE
117	C52	00128	13-57	Locomotive fireboxes - alteration to roofing stay bolts	18 Apr 1897		Not specified		FALSE
117	C52	00129	H77b	Metallic packing for valve spindle	8 May 1889		5'0" 6 wheels coupled goods engines (DX)		FALSE
117	C52	00130	13-58	Feed pipe connection - diagram of arrangement of chains, to engine and tender	27 Jun 1890		Not specified	Special note for DX engines	FALSE
117	C52	00131	H165	Clip for injector feed pipe	1 Nov 1893		Not specified	Special note for 6'0" 4 coupled side tank engines	FALSE
117	C52	00132		Side elevation	13 Aug 1890		7'0" compound express passenger engine and tender. F.W. Webb's System.	Master summary drawing	FALSE
117	C52	00133		Side and front elevation	13 Aug 1890		6'6" 4 wheels coupled express passenger engine (straight link)	Master summary drawing	FALSE
117	C52	00134	J64	Side elevation	13 Aug 1890		6'0" compound express passenger engine and tender (F.W. Webb's system)	Master summary drawing	FALSE
117	C52	00135	J71?	Side and front elevation	13 Aug 1890		5'0" 6 wheels coupled special DX engine	Master summary drawing	FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
117	C52	00136		Side and front elevation	13 Aug 1890		4'3" 6 wheels coupled coal engine	Master summary drawing	FALSE
117	C52	00137	K61	Automatic vacuum brake - flexible connection	1 Aug 1887		Not specified		FALSE
117	C52	00138		Diagram shewing the various sizes of lattice bars in girders of different spans for standard footbridges	3 Jul 1884		Standard footbridges		FALSE
117	C52	00139		Footbridge	20 May 1884		Newport		FALSE
117	C52	00140		Footbridge to Engineer's Offices	5 May 1884		Bangor		FALSE
117	C52	00141		Footbridge	27 Aug 1884		Cheadle Hulme		FALSE
117	C52	00142	K45	India rubber springs for carriages	6 Jul 1886		Standard item		FALSE
117	C52	00143	K65	Arrangement of automatic vacuum brake gear	6 Dec 1887		6'0" C.L. 4 wheels coupled passenger engine		FALSE
117	C52	00144	K67	Automatic vacuum brake - driver's air valve	2 Dec 1887		6' and 6'6" C.L. passenger engines		FALSE
117	C52	00145	E18w	Guides for front damper door	18 Oct 1887		18" goods, 6'6" and 6' compound engines		FALSE
117	C52	00146	K54	Standard carriage axle box for 3 1/2" diameter journals	14 Feb 1887		Standard item		FALSE
117	C52	00147		Reversing shaft bracket for high pressure cylinder	23 Feb 1884		6'6" compound engine		FALSE
117	C52	00148	K36+	Vacuum brake - driver's release with check valve	15 Aug 1884		Standard item		FALSE
118	C52	00149	H181	Detail of connecting pipes for release valves	26 Jun 1894		Compound locomotives		FALSE
118	C52	00150	H242	Radial axle box for 10" journal - detail of steps and keeps	11 Nov 1897		4'6" 6 and 8 wheels side tank and 4'3" side tank coal engines		FALSE
118	C52	00151	14-37	Detail of high pressure cylinder 15" dia x 24" stroke	11 Oct 1897		6'0" and 7'0" 8 wheels compound passenger engines		FALSE
118	C52	00152	H240	Boiler with side plate barrel	17 Aug 1897		7'6" passenger engine rebuilt	"This tracing submitted to Mr Webb 4/10/97. He decided not to make the barrel in one piece as shown."	FALSE
118	C52	00153	J48	Diagram of experimental trip with goods train 10.5 am ex (Stockport) Edgeley for Heaton Lodge 1 Dec 1896	20 Jan 1897		8 wheels compound coal engine no. 2525	Details of train and tonnage shown on drawing	FALSE
118	C52	00154	9-26	Lubricating arrangement for valve spindle and piston rod glands	8 Jun 1895		4'3" 8 wheels compound coal engine		FALSE
118	C52	00155	K122	Steam brake, details of castings	20 Aug 1896		Standard item		FALSE
118	C53	00156	C57	Water service for leading wheels	8 Dec 1905		Steam motor carriage		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
118	C53	00157	C55	Details of boiler	3 Oct 1905		Steam rail motor carriage		FALSE
118	C53	00158	C54	Side and floor elevations	18 Sep 1905		Steam rail motor carriage	Has dimesions and summary of features	FALSE
118	C53	00159	C34	Details of tank water gauge and connections	25 May 1905		Steam motor carriage		FALSE
118	C53	00160	C27	Details of water tanks	8 Apr 1905		Steam motor carriage		FALSE
118	C53	00161	C15	Boiler	17 Oct 1904		Steam motor carriage		FALSE
118	C53	00162	D71	Side elevation	13 Oct 1904		5'0" 6 wheels express goods engine cylinders 19" dia x 26" stroke		FALSE
118	C53	00163	J91	Indicator diagrams taken between Crewe and Rugby whilst working an experimental train on March 27 1904	9 Apr 1904		6'6" four wheels coupled express passenger locomotive, Precursor no. 513 (Joy's Valve Gear)	Total weight of train incl. engine and tender 471T 9C 3Q	FALSE
118	C53	00164	H65	Details of roofing stays for locomotive fireboxes	1 Jul 1904		For engines fitted with boilers of 175lb pressure or over		FALSE
118	C53	00165	S85	Details of low pressure slide valve and buckle	25 Feb 1904		7'0" 4 wheels coupled compound passenger engine	Also adapted for 4'3" 4 cylinder compound coal engine	FALSE
118	C53	00166	13-72	Diagram of boiler	23 Jun 1903		4'0" 4 wheels coupled shunting engine		FALSE
118	C53	00167	H303	Window frame in engine cabs	12 May 1902		Standard item		FALSE
118	C53	00168	14-58	Driving axle-box, horn block and springs	16 Oct 1900		7'0" 4 wheels coupled compound engine		FALSE
118	C53	00169	J54	Diagram of straight ling motion for passenger engines	11 Feb 1899		Not specified		FALSE
118	C53	00170	14-52	Detail of reversing screw and bracket	3 Dec 1898		7'0" 4 wheels coupled compound passenger engine		FALSE
118	C53	00171	K56	Standard steam brake cylinder - detail of piston, gland and metallic packing	15 Oct 1898		Standard item		FALSE
118	C53	00172	H254(?)	Boiler with single plate barrel	2 Jun 1899		5'6" side tank		FALSE
118	C53	00173	13-78	Diagram of boiler on engine 2524 (19 1/2" cylinders)	23 Jun 1903		Engine 2524 (someone with LNWR knowledge will know what it is)		FALSE
119	C53	00174	H290	Details of piston valves, liners and steam chest covers	2 May 1901		7'6" passenger engine, rebuilt		FALSE
119	C53	00175	9-27	Detail of high pressure cylinder (15" dia x 24" inch stroke) fitted with piston valves	16 Oct 1900		4'3" compound coal engine		FALSE
119	C53	00176	13-74	Diagram of locomotive boiler	7 May 1900		4'6" side tank passenger engine (8 wheels)		FALSE
119	C53	00177	14-56	Diagram showing arrangement of boiler, smoke-box and fire-box	11 Apr 1900		7'0" compound passenger locomotive - Teutonic class		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
119	C53	00178	14-55	Steam jet and circulating pipe in combustion chamber	19 Apr 1899		7'0" compound engine 8 wheels		FALSE
119	C52	00179	H232	Standard valve motion for passenger engine	28 Sep 1896		Standard item		FALSE
119	C52	00180	14-31	Details of low pressure eccentric	28 Oct 1895		6 types of compound engine		FALSE
119	C52	00181	E7	Smoke box	8 Jun 1895		18" goods engines		FALSE
119	C52	00182	K119	Steam brake gear - driver's brake valve	26 Apr 1895		6 types of 4'3" 8 wheels engine		FALSE
119	C52	00183	H79c	Details of metallic packing for valve spindles	10 Nov 1894		Compound locomotive engines		FALSE
119	C53	00184	14-53	General arrangement and details of smokebox	8 Feb 1899		7'0" 4 wheels coupled compound passenger engine		FALSE
119	C53	00185	C49	General arrangement and details of vacuum pipes	1 Aug 1905		Steam motor carriage (cylinders 9 1/2" x 15")		FALSE
119	C53	00186	J100	Diagram showing speeds, indicated horsepower and pull on drawbar, during experimental trip with passenger train Carlisle - Crewe, 21 May 1905	6 Jun 1905		Experiment class		FALSE
119	C53	00187	J100	Diagram showing speeds, indicated horsepower and pull on drawbar, during experimental trip with passenger train Crewe - Carlisle, 21 May 1905	6 Jun 1905		Experiment class		FALSE
119	C53	00188	J91	Diagram showing speeds, drawbar pull and horsepower developed during trial trip between Rugby and Crewe 27 March 1904	9 Apr 1904		Precursor class no. 513		FALSE
119	C53	00189	J91	Diagram showing speeds, drawbar pull and horsepower developed during trial trip between Crewe and Rugby, 27 March 1904	9 Apr 1904		Precursor class no. 513		FALSE
119	C53	00190	J87	Results of experimental trips between Crewe and Stafford on 27 Sep 1903	10 Nov 1903		Benbow class no. 1952		FALSE
119	C53	00191	9-16	Details and general arrangement of hopper and general arrangement of spark arrestor and baffle plate	28 May 1903		4'3" 4 cylinder compound coal engine		FALSE
119	C54	00192	4-28	Diagram of boiler and firebox	17 Dec 1908		Experiment class		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
119	C54	00193	5-51	Diagram of boiler and firebox	17 Dec 1908		Precursor class		FALSE
119	C54	00194	A76	General arrangement of auto vacuum brake	27 Nov 1908		5'9" Metropolitan side tank engine		FALSE
119	C54	00195	D31	Diagram shewing arrangement of boiler, smokebox and firebox	13 Jun 1908		6'0" 4 coupled side tank engine		FALSE
119	C54	00196	J132	Diagram showing authorised routes for Relievers and others walking to and from shed and Brakeman's mess room to various points in the vicinity of Bescott junction	11 Dec 1907		Walking route		FALSE
119	C54	00197	5-55	General arrangement of firebox, fire bars and ashpan	19 Jul 1907		Precursor class		FALSE
120	C53	00198	13-68	Diagram of boiler for old Crewe 6' passenger engine	27 Jan 1899		Old Crewe 6'0" passenger engine		FALSE
120	C53	00199	none	DW&WR engines elevations	26 Jan 1898		DW&WR engines 52, 53 and 54		FALSE
120	C53	00200	J97	Elevation	5 Jan 1905		Original Trevithick locomotive Cornwall built 1847		FALSE
120	C53	00201	J102	Elevation	19 Aug 1905		5' 6 wheel coupled 4 cylinder compound goods engine		FALSE
120	C53	00202	J101	Elevation	19 Aug 1905		6 wheel coupled goods engine with 18" cylinders		FALSE
120	C53	00203	J108	Elevation	19 Aug 1905		4'3" 8 wheel coupled compound coal engine (4 cylinders) Class E		FALSE
120	C53	00204	G70	Standard section of wheel tyre and rail	19 Oct 1902		Rail and wheel		FALSE
120	C53	00205	9-12	Details of piston valves and eccentric expansion wings	2 May 1901		4'3" compound coal engine		FALSE
120	C53	00206	J82	Indicator diagrams taken between Liverpool and Crewe with 16 1/2 coaches	5 Sep 1898		7'0" 4 wheel coupled compound pass engine no. 1501 'Diamond Jubilee'		FALSE
120	C53	00207	13-22	Diagram of standard auto restarting injector for locomotives	22 Apr 1898		Injector		FALSE
120	C53	00208	9-25	Diagram of lubricator pipes in smokebox	4 Feb 1909		4'3" compound coal engine		FALSE
120	C53	00209	J152	Section of Lancaster and Carlisle Division	9 Sep 1898		Gradient profile		FALSE
120	C53	00210	H527	Metallic packing for 3" piston rods	25 Sep 1908		5 classes of locomotive		FALSE
120	C53	00211	H206	Detail of steel injector stand pipe	27 Nov 1908		Anonymous engine		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
120	C54	00212	J127	Elevation and front view	25 Sep 1907		4'3" 8 coupled coal engine, G and G1 classes		FALSE
120	C54	00213	J128	Elevation and front view	25 Sep 1907		4'3" 8 coupled 4 cylinder compound coal engine, B class		FALSE
120	C54	00214	J116	Elevation	3 Aug 1907		8'6" single passenger engine 'Cornwall'		FALSE
120	C54	00215	J120	Elevation	3 Aug 1907		7'0" 8 wheel compound passenger engine 'Greater Britain'		FALSE
120	C54	00216	J115	Elevation and front view	3 Aug 1907		7'0" 4 coupled compound passenger engine 'Jubilee'		FALSE
120	C54	00217	J121	Elevation and front view	3 Aug 1907		6'0" 4 coupled passenger engine 'Waterloo'		FALSE
120	C54	00218	J119	Elevation	3 Aug 1907		6'0" 8 wheel compound passenger engine 'John Hick'		FALSE
120	C54	00219	J118	Elevation	3 Aug 1907		4'3" 3 cylinder compound coal engine, A class		FALSE
120	C54	00220	none	Elevation and front view	5 Feb 1907		6'0" 4 coupled side tank engine		FALSE
120	C54	00221	J39	Elevation	8 Jan 1906		5'9" Metropolitan tank engine		FALSE
120	C54	00222	J65	Elevation and front view	8 Jan 1906		5'6" side tank passenger engine		FALSE
120	C54	00223	40	Elevation and front view	8 Jan 1906		5'0" 6 wheel coupled side tank passenger engine, 18" cylinders		FALSE
120	C54	00224	J13	Elevation and front view	8 Jan 1906		4'6" side tank passenger engine (8 wheels)		FALSE
120	C54	00225	J109	Elevation and front view	8 Jan 1906		4'6" side tank passenger engine (6 wheels)		FALSE
120	C54	00226	J70	Elevation and front view	8 Jan 1906		4'3" 6 wheel coupled side tank coal engine		FALSE
120	C54	00227	J107	Elevation and front view	8 Jan 1906		4'3" 6 wheel coupled special tank		FALSE
120	C54	00228	J101	Elevation and front view	8 Jan 1906		4'3" 6 wheel coupled saddle tank coal engine		FALSE
120	C54	00229	J111	Elevation and front view	8 Jan 1906		4'0" 4 wheel coupled crane engine		FALSE
120	C54	00230	J105	Elevation and front view	8 Jan 1906		4'0" 4 wheel coupled saddle tank engine		FALSE
120	C54	00231	J106	Elevation	9 Jan 1906		2'6" 4 wheel coupled shunting engine		FALSE
120	C54	00232	D30	Diagram shewing water capacity of tanks	9 Oct 1906		6'0" 4 coupled side tank engine		FALSE
120	C54	00233	H11	Steam brake piston rod for side tank engines	19 Sep 1906		5 classes of locomotives		FALSE
120	C54	00234	10-60	Diagram of 3000 gallon tender	18 Oct 1907		3000 gallon tender		FALSE
120	C54	00235	J114	Elevation	16 Apr 1907		Proposed 5'2 1/2" diameter 8 coupled goods engine (19" dia x 18" stroke)		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
120	C54	00236	J222a	Gradient section for oil firing experiments, London to Birmingham	20 Nov 1920		Anonymous oil-fired locomotive	475 gallons of oil used on trip 15 Nov 1920	FALSE
120	C54	00237	J222a	Gradient section for oil firing experiments, London to Birmingham	31 Aug 1920		Anonymous oil-fired locomotive	442 gallons of oil used on trip 25 Aug 1920	FALSE
120	C54	00238	none	Dynamometer trials between Stafford and Crewe	22 Aug 1909		No. 4 trip - dynamo belts off		FALSE
120	C54	00239	none	Dynamometer trials between Stafford and Crewe	22 Aug 1909		No. 3 trip - dynamo belts off		FALSE
120	C54	00240	none	Dynamometer trials between Stafford and Crewe	22 Aug 1909		No. 2 trip - dynamo belts on		FALSE
120	C54	00241	none	Dynamometer trials between Stafford and Crewe	22 Aug 1909		No. 1 trip - dynamo belts on		FALSE
121	C54	00242	C15	Boiler for steam motor carriage	6 Nov 1906		Motor carriage		FALSE
121	C54	00243	5-56	Detail of firebox	12 Oct 1906		Precursor class		FALSE
121	C54	00244	D57	Diagram of steam pipes	31 Mar 1908		5'0" 6 whl coupled goods engine, cylinders 19" x 26"		FALSE
121	C53	00245	14-71	Lubricator for regulator valve in smokebox	20 May 1903		5'6" 4 wheel coupled side tank, 6'0" and 6'6" 4 wheel coupled passenger engines		FALSE
121	C53	00246	14-68	Balancing for low pressure driving wheels fitted with built-up crank	14 Nov 1902		7'0" compound passenger engine (6 wheels)		FALSE
121	C53	00247	H310	Diagram shewing arrangements of automatic drain cocks	10 Oct 1902		10 classes of locomotives		FALSE
121	C53	00248	H140	Standard piston rod ends and nuts	2 Oct 1901		Standard fitting		FALSE
121	C53	00249	14-65	Arrangement and details of roofing bars, etc. for firebox	14 Aug 1901		7'0" 4 wheel coupled compound passenger engine fitted with HP cylinders 16" dia and larger boilers		FALSE
121	C53	00250	14-64	Details of work for staying firebox of larger boilers	14 Aug 1901		7'0" 4 wheel coupled compound passenger engine		FALSE
121	C54	00251	C61	Diagram showing regulator rod under coaches	19 Jun 1909		Train for Red Wharf Bay Service		FALSE
121	C54	00252	none	Application of fan for forced draught	10 Dec 1908		Precursor class		FALSE
121	C54	00253	E35	Diagram of boiler and firebox	17 Dec 1908		18" cylinder goods engine		FALSE
121	C54	00254	J130	Diagram of gradients between Liverpool and Leeds	29 Oct 1907		Gradient profile		FALSE
121	C54	00255	J222	Chart of experimental trip Euston to Crewe, Sunday 27 Jun 1920, with locomotive fitted with 'Scarab' oil burning system	2 Jul 1920		Precursor class, no. 2585 'Watt'		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
121	C54	00256	C90	Elevation and end view of the Crewe dynamometer car	16 Dec 1926		Dynamometer car		FALSE
122	C54	00257	J154	Diagram shewing speed and drawbar pull during trip with 12.58pm Carlisle - Crewe, 10 Jul 1909	10 Jul 1909		Experiment class, no. 2630 'Buffalo'		FALSE
122	C54	00258	none	Diagram shewing time, speed and drawbar pull taken during trips with the 9.15am Crewe - Carlisle, 6 Jul 1909	6 Jul 1909		CR no. 903 'Cardean' and LNWR Experiment class no. 2630 'Buffalo'		FALSE
122	C54	00259	J154	Diagram shewing time, speed and drawbar pull during trip with the 12.58pm Carlisle - Crewe, 7 Jul 1909	7 Jul 1909		CR no. 903 'Cardean'		FALSE
122	C54	00260	J151	Diagram shewing speed and drawbar pull during trip with the 10.00am Euston - Crewe, 7 Jul 1909	25 Jun 1909		Precursor class, no 250 'Albatross' with Driver Robbins		FALSE
122	C54	00261	J156	Diagram shewing speed and drawbar pull during non-stop run Euston - Birmingham N St, 28 Nov 1909	28 Nov 1909		Precursor class, no 1387 'Lang Meg' with Driver Forrester	Mean speed 60.6 mph, weather drizzly	FALSE
122	C54	00262	J156a	Diagram shewing speed and drawbar pull during non-stop run Birmingham N St - Euston, 28 Nov 1909	28 Nov 1909		Precursor class, no 1387 'Lang Meg' with Driver Forrester	Mean speed 66 mph, weather fine throughout	FALSE
122	C54	00263	J151	Diagram shewing speed and drawbar pull during trip with the 10.00am Euston - Crewe, 26 Jun 1909	26 Jun 1909		GNR Atlantic 4-4-2 no. 1449, Driver T. Bartlett, pilotman J. Button		FALSE
122	C55	00264	4-121	Details of cylinders	2 Apr 1914		Experiment class fitted with special (DM) valve arrangement		FALSE
122	C55	00265	H697	Quadruple safety valve - detail of body casting	1 May 1913		Standard fitting		FALSE
122	C55	00266	H197	Details of riveting for boiler joints	6 Sep 1912		Standard fitting		FALSE
122	C55	00267	4-41?	Diagram of tube plate	4 Oct 1911		Experiment class		FALSE
122	C55	00268	G94	Diagram	7 Jun 1911		Eccles water troughs		FALSE
122	C55	00269		Detail of bunker doors	22 Dec 1910		3000 gallon tender with water bottom tank and sloping bunker		FALSE
122	C55	00270	3-85	Details of piston, cylinder covers	24 Jan 1912		5'6" 6 coupled side tank engine with superheater, cyls 20" x 26" stroke		FALSE
122	C55	00271		Details for bunker doors	28 Dec 1910		3000 gallon tender with water bottom tank and sloping bunker		FALSE
122	C55	00272	3-34	Detail of side tanks	10 Aug 1910		5'6" 6 coupled side tank engine		FALSE
122	C55	00273	J34	Gradient diagram	no date		Euston to Crewe		FALSE
122	C55	00274	J166	Sketch plan of St Helens District showing water purchased or pumped by L&NWR	15 Jul 1910		St Helens district		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
122	C55	00275	J161	Sketch plan of Liverpool and District showing water purchased or pumped by L&NWR	7 Mar 1910		Liverpool district		FALSE
122	C55	00276	H20	General arrangement of pipes for vacuum brake	7 Oct 1910		G class	Pencil endorsement - 'not fitted'	FALSE
123	C55	00277	J199	Speed trials between Caernarvon and Afonwen on 26 and 27 March 1914	9 Mar 1914		4'3" coal side tank no. 120, 5'6" side tank no. 2139, 18" goods no. 1780	Drivers W. Williams, R. Owen and J.T. Roberts	FALSE
123	C55	00278	J198	Speed trials between Buxton and Manchester on 16 November 1911	11 Dec 1911		8.20 am and 3.20 pm ex Buxton and 12.05 pm and 5.40 pm ex Manchester		FALSE
123	C55	00279	C87	General arrangement	6 Nov 1911		Dynamometer car		FALSE
123	C55	00280	J186a	Speed trials, non-stop runs between Crewe and Carlisle on 18 February 1912	26 Feb 1912		Engine 'Pathfinder', dynamometer car and 12 coaches		FALSE
123	C55	00281	J207	Vacuum and steam brake tests between Crewe and Stafford, 23 September 1912	21 Oct 1912		Precursor class no. 2120 'Trentham' and no. 520 'Panopea'		FALSE
123	C55	00282	J207a	Vacuum and steam brake tests between Crewe and Stafford, 8 September 1912	23 Sep 1912		Precursor class no. 2120 'Trentham' and no. 520 'Panopea'		FALSE
123	C55	00283	8-19a	Details of radius in corners of firebox	4 Apr 1913		4'3" 6 coupled coal engine and 4'3" 6 coupled saddle tank coal engine		FALSE
123	C55	00284	H693	Portion of jib and crane post showing external fittings	15 Nov 1912		3-ton locomotive crane engine		FALSE
123	C55	00285	K141	Details of connections for vacuum brake on locomotives	17 Aug 1912		Standard fitting		FALSE
123	C55	00286	D84	Details of steam pipe in smokebox	14 Sep 1911		5'0" 6 wheel coupled goods engine (cyls 19" x 26")		FALSE
123	C55	00287	8-25	Suggested bearings for crane post	24 Apr 1914		4'3" 6 coupled side tank crane engine		FALSE
123	C55	00288	1-10	Alteration to position of whistle lever & arrangement for adjusting cable in driver's compartment	4 Feb 1914		Motor trains		FALSE
123	C55	00289	J30	Gradient diagram	29 Jul 1910		Crewe to Carlisle		FALSE
123	C55	00290	4-6	Details of steam pipes in smokebox	none		Experiment class fitted with special (DM) valve arrangement		FALSE
123	C55	00291		Plan showing fittings	none		23/AT Infantry vans		FALSE
123	C55	00292		Details of rifle racks and mess tables	none		15/AT Infantry vans		FALSE
123	C55	00293		General arrangement	26 Mar 1915		22/AT gun truck	2nd Armoured train in pencil	FALSE
123	C55	00294	11-92	Arrangements and details of lifting tackle	12 Dec 1917		G class		FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
123	C55	00295	11-95	Arrangements and details of lifting tackle	13 Jan 1917		G class for overseas		FALSE
123	C55	00296	12-47	Diagram	17 Oct 1916		Motor passenger and parcels vehicles		FALSE
123	C55	00297	J37	Indicator diagrams taken between Crewe and London 29 Aug 1915	24 Mar 1916		6'0" 6 wheel coupled 4 cylinder passenger engine no. 1361 'Prospero', fitted with special (DM) valve arrangement		FALSE
123	C55	00298	13-9a	Diagrams of lamp brackets	13 Oct 1914		Motor train locos		FALSE
123	C55	00299	4-P	Details of blast pipe	15 Sep 1914		Experiment class fitted with special (DM) valve arrangement		FALSE
124	C56	00300	H220b	Tender stop cock shewing grooves when plug is in closed position	26 Oct 1914		Carriage heating apparatus		FALSE
124	C56	00301		Elevation and front view	8 Sep 1914		4'3" 4 wheel coupled shunting engine no. 317, built in 1896		FALSE
124	C56	00302		Elevation and front view	2 Sep 1914		4'3" 8 coupled coal engine class D no. 1866, built March 1906		FALSE
124	C56	00303		Elevation and front view	28 Sep 1914		4'3" 8 coupled shunting engine no. 1185, built Dec 1911		FALSE
124	C56	00304		Elevation and front view	2 Sep 1914		4'3" 8 coupled coal engine Class G1 no. 1329, superheated built Dec 1911 built February 1912		FALSE
124	C56	00305		Elevation and front view	2 Sep 1914		4'3" 8 coupled coal engine Class G no. 2653, built February 1910		FALSE
124	C56	00306		Elevation and front view	20 Aug 1914		7'0" 4 coupled passenger engine no. 1918, built 1908		FALSE
124	C56	00307		Elevation and front view	20 Aug 1914		Experiment class no. 66, built May 1905		FALSE
124	C56	00308		Elevation and front view	19 Aug 1914		Prince of Wales class superheated no. 819 'Prince of Wales', built October 1911		FALSE
124	C56	00309		Elevation and front view	6 Jan 1917		4'3" 6 coupled coal engine with 2500 gallon tender	Applicable only to engines sent overseas	FALSE
124	C56	00310		Diagram of locomotive boiler shewing particulars of boiler shell painting	23 Jul 1915		not specified		FALSE
124	C56	00311		Cylinder - no. 100F (Mark 1)L/tin. One fuse, graze, no. 100 with Gaine	none		Cylinder		FALSE
124	C56	00312	J92	Diagram	15 Jan 1915		Armoured train		FALSE
124	C56	00313	J92a	Diagram	5 May 1915		1/AT 2nd Armoured train		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
124	C56	00314	3-9	Detail of water connection and filling-up plates between side tank and bunker tank	14 Mar 1913		not specified		FALSE
124	C56	00315	10-47a	Detail of axlebox step with white metal bearing	18 Oct 1912		3000 gallon tender with original type of axlebox	endorsed in pencil PC 15855	FALSE
124	C56	00316	J13	Indicator diagrams	9 Feb 1914		6 coupled 4 cylinder passenger engine no. 1159 'Ralph Brocklebank'		FALSE
124	C56	00317		Gradient diagram	14 Feb 1913		Crewe to Carlisle		FALSE
124	C56	00318	8-23	Detail of tubeplate for steel firebox	8 Mar 1912		4'3" 6 coupled coal engine		FALSE
125	C56	00319	R232	Shell BL or QF high explosive, 6" gun, Mark XVI/L, forged steel with fixing screw	none		Shell		FALSE
125	C55	00320	J169a	Speed trials, diagram of non-stop run Holyhead and Crewe, 22 Oct 1911	26 Oct 1911		no. 261 'Jeanie Deans', dynamometer car and 12 coaches. Hasler speed recorder	Driver George Smith	FALSE
125	C55	00321	J169	Speed trials, diagram of non-stop run, Crewe and Holyhead 22 Oct 1911	26 Oct 1911		no. 261 'Jeanie Deans', dynamometer car and 12 coaches. Hasler speed recorder	Driver George Smith	FALSE
125	C55	00322	J186	Speed trials, diagram of non-stop run, Carlisle and Crewe 15 Oct 1911	20 Oct 1911		George V class no. 2663 'George the Fifth', dynamometer car and 12 coaches. Frodsham speed indicator	Driver T. Jones	FALSE
125	C55	00323	J186	Speed trials, diagram of non-stop run, Crewe and Carlisle 15 Oct 1911	20 Oct 1911		George V class no. 2663 'George the Fifth', dynamometer car and 12 coaches. Frodsham speed indicator	Driver T. Jones	FALSE
125	C55	00324	J187	Speed trials, diagram of non-stop run, Crewe and Euston 8 Oct 1911	13 Oct 1911		George V class no. 2663 'George the Fifth', dynamometer car and 12 coaches. Frodsham speed indicator	Driver T. Jones	FALSE
125	C55	00325	J187	Speed trials, diagram of non-stop run, Euston and Crewe 8 Oct 1911	13 Oct 1911		George V class no. 2663 'George the Fifth', dynamometer car and 12 coaches. Frodsham speed indicator	Driver T. Jones	FALSE
125	C55	00326	J168	Experimental train - diagram showing speed, indicated horsepower, pull on drawbar between Crewe and Euston, 24 Jul 1910	10 Aug 1910		George V class no. 2663 'George the Fifth', dynamometer car and 13 coaches	One stop only, at Rugby	FALSE
125	C55	00327	J169	Experimental train - diagram showing speed, indicated horsepower, pull on drawbar between Euston and Crewe, 24 Jul 1910	10 Aug 1910		George V class no. 2663 'George the Fifth', dynamometer car and 13 coaches	Non-stop run	FALSE
125	C55	00328	J200	Tonnage loading of goods etc. trains between Blethchley and Tring	7 Jun 1914		4'3" 8 coupled coal engine no. 1790, superheated, 2 runs each with coal and mineral trains	Driver J. Payne	FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
125	C55	00329	J216?	Experimental train - diagram showing speed, drawbar pull and gradient section between Crewe and Carlisle, 4 Nov 1913	31 Dec 1913		6'6" 6 coupled passenger engine no. 1159 'Ralph Brocklebank'		FALSE
125	C56	00330		Detail of coal bunker in van	none		20/AT		FALSE
125	C56	00331	10-79	Diagram showing leading and trailing buffer beams	24 Feb 1917		3000 gallon tender for G class	no. in pencil 323/9 also	FALSE
125	C56	00332	10-73	Axle box for axles without collars and springs with flat seating	28 Feb 1916		3000 gallon tender		FALSE
125	C56	00333	U6	Details of crosshead and gudgeon pin	15 Mar 1915		5'0" 6 wheel coupled goods engine 18 1/2 x 24" cylinders (4 cyl compound (1400 class) converted)		FALSE
125	C56	00334	H721	Details of piston valves 1 /16" lap, (B design) and liners	4 Mar 1915		George V and Prince of Wales and 4'3" 8 couple (20 1/2" cyls superheated) coal engines		FALSE
125	C56	00335	U4	Details of cylinder ends, radius rod brackets, slide bars, piston rods and cover plates for exhaust branch	4 Mar 1915		5'0" 6 coupled goods engine 18 1/2" x 24" cylinders, 4 cyl compound (1400 class) converted		FALSE
125	C56	00336	4-146	Arrangement of pyrometer, lubricators and pies	3 Dec 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00337	4-X	General arrangement of auto vacuum brake gear	20 Nov 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00338	4-145	Details of top footplate castings and raised tender fall-plate	20 Nov 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00339	4-W	General arrangement of smokebox	30 Oct 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00340	4-142	Details of cylinder lagging plates and splashers for trailing wheels of radial truck	30 Oct 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00341	4-U	Arrangement and details of snifting valve drain cup and elbow	26 Oct 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00342	4-137	Details of cylinder drain valves and brackets	2 Sep 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00343	4-0	Details of splashers	27 Aug 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00344	9-6	Details of driving axlebox	15 Aug 1914		4'3" 4 cylinder compound coal engine	Also other 4'3" engines	FALSE
125	C56	00345	4-M	Details of valve motion	15 Aug 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00346	4-N	Details of slide bars	15 Aug 1914		Experiment class, fitted with special DM valve arrangement		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
125	C56	00347	4-J	Details of rocking shaft brackets and bearing in frames	5 Aug 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00348	4-K	Details of piston rods	5 Aug 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00349	4-I	Details of steam pipes and flanges	5 Aug 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00350	4-G	Details of miscellaneous and castings	21 Jul 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00351	4-125	Details of crosshead and gudgeon pins	21 Jul 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C56	00352	4-H	Details of steam chest covers and valve liners	17 Jul 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C58	00353	4-124	Details of piston valves	17 Jul 1914		Experiment class, fitted with special DM valve arrangement		FALSE
125	C58	00354	4-B	Details of cylinder covers and piston head	1 Jul 1914		Experiment class, fitted with special DM valve arrangement		FALSE
126	C58	00355	135261	Arrangement of ATC apparatus	12 Sep 1955		2-8-0 Austerity class	BR Western Region	FALSE
126	C58	00356	C35735	Foundation ring join for steel inner firebox, Belpaire type	29 Oct 1943		Classes G1 and G2		FALSE
126	C58	00357	9-21	Patchplate in boiler barrel following mishap	none		Mishap to 4'3" 8 coupled coal engine no. 134		FALSE
126	C58	00358	J254	Experimental trip - diagram showing speed, drawbar pull and gradient section between Crewe and Carlisle, 25 and 26 Jan 1927	24 Oct 1927		Cloughton class no. 5908 'Alfred Fletcher' fitted with Caprotti valve gear		FALSE
126	C58	00359	T335	Details of foundations of Madeley borehole pumping plant	29 Dec 1926		Madeley borehole	See drawing no. 00497	FALSE
126	C58	00360	J249	Part of test between Florence and Rome Sunday 13 Dec 1925	21 Dec 1925		2-6-2 4-cyl simple locomotive fitted with Caprotti valve gear		FALSE
126	C58	00361	A86	Sections	24 Feb 1925		G1 class 4'3" 8 coupled coal engine		FALSE
126	C58	00362	13-123	Diagram of heights and centres of swan neck pipes for vacuum brake on tenders	21 Jan 1924		4 types of tender		FALSE
126	C58	00363	T277b	Diagram showing pumping levels and yield of no. 3 boring for water supply at Whitmore	none		Whitmore troughs	See drawing nos. 00509, 00511, 00512, 00589, 00590	FALSE
126	C58	00364	13-121	Diagram of lubricating gudgeon pins when floating bush is used	15 Jan 1924		Division A engines		FALSE
126	C58	00365	H-837	Midland division water gauge.	15 Nov 1923		Adapted to suit A Division boilers		FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
126	C58	00366	J-236	Diagrams of Dynamometer Car test between Crofton Junction & Mytholmroyd on Sunday 25 March 1921	7 Apr 1923				FALSE
126	C58	00367	11-127	Details of coupling rods	28 Mar 1923		Class G2 superheated		FALSE
126	C58	00368	J-234	Vacuum brake tests between Crewe & Stafford on Sunday 25 Feb 1923	3 Mar 1923		Cloughton No. 695 ' Sir Arthur Lawley'	Driver W Phillips: Fireman G Wright	FALSE
126	C58	00369	H-820	Detail of washout plugs & patch plates	27 Nov 1922		13 classes of locomotive		FALSE
126	C58	00370	H-809	Castings for slide valve & axlebox step	4 May 1922		Standard fitting		FALSE
126	C58	00371	J29a	Section of gradients between Manchester (London Road) & London (Marylebone) via Aylesbury	21 Apr 1922			Great Central Railway	FALSE
126	C58	00372	J233a	Vacuum brake tests between Crewe & Stafford on Sunday 18 Dec 1921	None		Cloughton No. 2401 'Lord Kitchener'	Driver W Phillips: Fireman S Jones	FALSE
126	C58	00373		Diagram showing position of coupled wheels hornblocks	16 Apr 1921		Cloughton class		FALSE
126	C58	00374	68/10	Arrangement of frame plates & hornblocks	16 Apr 1921		Prince of Wales class		FALSE
126	C58	00375	10-121	Axlebox with SKF roller bearings	14 Jun 1921		3000 gallon tender		FALSE
126	C58	00376	9-21a	Development of boiler barrel plates	2 Dec 1921		4'3" 4 cylinder compound coal engine No. 134		FALSE
126	C58	00377	H-804	6mm injector clack box & steam connection	23 Aug 1923		Standard vertical boilers		FALSE
126	C58	00378	10-121	Axlebox with SKF roller bearings: details of axles	14 Jun '1921		3000 gallon tender		FALSE
126	C58	00379	J233	Vacuum brake tests between Crewe & Stafford on Sunday 26 Feb 1922	8 Mar 1922		Cloughton No. 2401 'Lord Kitchener'	Driver W Phillips Fireman: A Tomkinson	FALSE
126	C58	00380	10-121	Axlebox with SKF roller bearings	14 Jun 1921		3000 gallon tender		FALSE
127	C59	00381		End view, showing tubes and cylinders, scale 3" to 1'	none		8 wheeled side tank passenger engine		FALSE
127	C59	00382	J73	Side view, scale 3" to 1'	none		8 wheeled side tank passenger engine		FALSE
127	C59	00383	J75	Top view, scale 3" to 1'	none		8 wheeled side tank passenger engine		FALSE
127	C59	00384	J76	Top view, emphasising grate, firebox, tubes and blast pipe	none		8 wheeled side tank passenger engine		FALSE
127	C59	00385	H782	Miscellaneous steel castings for engines and tenders	none		Precursor, George V, Alfred the Great, 4'3" engines and 3000 gallon tenders		FALSE
127	C59	00386		no title - details of brake blocks	none		very many - probably all - LNWR classes		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
127	C59	00387		Diagram shewing clearance between axleboxes and hornblocks	none		very many classes of passenger and goods engine		FALSE
127	C59	00388		Detail and diagram of cast iron continuation of footboard	none		many classes of passenger and goods engine	overwritten in pencil 'scrap'	FALSE
127	C59	00389	7-196	Arrangement of oil boxes and lubricating pipes for driving, intermediate and trailing axle boxes	none		Cloughton class		FALSE
127	C59	00390		Detail of patch plate on frame over driving horn	none		Precursor class		FALSE
127	C59	00391		Boiler	none		Precursor class		FALSE
127	C59	00392	4-119	Details of colour lining	none		Prince of Wales class		FALSE
127	C59	00393		Details of coupling rods with bushes 3" wide	none		4'3" 8 coupled coal engine		FALSE
127	C59	00394	9-20	Diagram of boiler	none		4'3" 4 cylinder compound coal engine		FALSE
127	C59	00395	9-39	Arrangement of longitudinal roofing bars etc. for firebox	none		4'3" 8 wheel coupled 4 cylinder compound coal engine		FALSE
127	C59	00396		Details of lagging for boiler	none		5'0" 8 wheel coupled goods engine		FALSE
127	C59	00397		Boiler	none		5'0" 8 wheel coupled goods engine cylinders 19" dia x 26" stroke		FALSE
127	C59	00398	J231	Template for recording results of experimental trips between Crewe and Carlisle	none		blank	Shows gradients, drawbar pull, speed, boiler pressure, position of reversing gear, regulator opening	FALSE
127	C59	00399	J228	Template for recording results of experimental trips between Rugby and Crewe	none		blank	Shows gradients, drawbar pull, speed, boiler pressure, position of reversing gear, superheater temperatures, regulator opening	FALSE
127	C59	00400		Detail of crosshead and gudgeon pin	none		5'0" 8 wheel coupled goods engine		FALSE
127	C59	00401		Details of cylinders 19" diameter x 26" stroke	none		5'0" 8 wheel coupled goods engine	Pattern same as used for Precursor class	FALSE
127	C59	00402	A82	Diagram of locomotive with flash boiler	Feb 1921		4-4-0 engine	Date and title in pencil	FALSE
128	C59	00403		Details of cylinder lagging plate	none		5'0" 8 coupled goods engine cylinders 19" dia x 26" stroke		FALSE
128	C59	00404	9-1?	Details of reversing lever and rod	none		4'3" 4 cylinder compound coal engine fitted with large boilers		FALSE
128	C59	00405	J152	Section of line between Crewe and Holyhead	none		Gradient diagram		FALSE
128	C59	00406	3-59	Arrangement of handrail and vacuum pipe	none		5'6" 6 coupled side tank engines		FALSE
128	C59	00407	13.130	Diagram of steel tubes	none		Unidentified		FALSE
128	C59	00408		Steam ring jet	none		Loco type boiler with uptake chimney 15 1/2" diameter		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
128	C59	00409	5-67	Union for securing steam pipe where it passes through panel	none		Based on Claughton class		FALSE
128	C59	00410	J79	Diagram	none		1500 gallon tender		FALSE
128	C59	00411		Side and end elevations	none		Class F, 4'3" 8 wheel coupled coal engine (4 cylinders) fitted with large boilers 5'2" diameter		FALSE
128	C59	00412		Side and end elevations	none		5'0" 6 coupled goods engine (cylinders 19" diameter)	Date 1906 in pencil	FALSE
128	C59	00413		Packing for 2" piston rod	none		Several different designs	Stapled to drawing no 414	FALSE
128	C59	00414	C33	Packing for 1 1/4" valves	none		Several different designs	Stapled to drawing no 413	FALSE
128	C59	00415	H220a	Carriage heating apparatus stop cock, shewing relative position of drain hole and groove in cock, when steam is shut off from train	none		Standard fitting		FALSE
128	C59	00416	C52	Dimensions and weights	none		Steam motor carriages		FALSE
128	C59	00417	10-98	Tender axles with 11" x 5 1/2" journals	none		3000 gallon tender		FALSE
128	C59	00418	J192	Diagram	none		6 coupled Belgian engines		FALSE
128	C59	00419	G85	Loco coal wagon to carry 10 tons	none		Loco coal wagon		FALSE
128	C59	00420		Side and end elevations	none		Alfred the Great class		FALSE
128	C59	00421		Side and end elevations	none		Claughton class	Date 1913 in pencil	FALSE
128	C59	00422		Side and end elevations	none		George V class	Date 1910 in pencil	FALSE
128	C59	00423		Side and end elevations	none		Precursor class	Date 1906 in pencil	FALSE
128	C59	00424		Side and end elevations	none		5'6" 6 coupled side tank engine fitted with superheater	Date 1911 in pencil	FALSE
128	C59	00425		Side and end elevations	none		5'6" 6 coupled side tank engine without superheater	Date 1910 in pencil	FALSE
128	C59	00426	J182	Side and vertical elevations	none		George V class		FALSE
128	C59	00427		Wheel arrangement, dimensions and weights	none		George V class fitted with superheater		FALSE
128	C59	00428	H220c	Carriage heating apparatus, shewing positions of handle on steam cock	none		Standard fitting		FALSE
128	C59	00429	13-11	Snap headed parallel split pins	none		Standard fitting		FALSE
128	C59	00430	K137	Vacuum brake - stop bracket for trailing end	none		4'3" 8 coupled shunting engine, 5'0" 6 coupled side tank (18" cylinders), 5'6" 4 and 6 coupled side tank, 6'0" 4 coupled side tank		FALSE
128	C59	00431	13-51	Diagram showing position of spark arrestor in smoke box	none		Standard fitting		FALSE
128	C59	00432	H762a	Steam pressure gauge	none		Standard fitting		FALSE
128	C59	00433	4-49	Diagram of copper tubeplate	none		6'0" 6 coupled passenger engine		FALSE
128	C59	00434	H286	View of smokebox showing double chimney arrangement	none		6'6" 4 wheel coupled passenger engine		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
128	C59	00435		Alteration of valve spindle and buckle	none		Compound locomotive experiment		FALSE
129	C59	00436	E27	Diagram of boiler	none		18" cylinder express goods engine		FALSE
129	C59	00437	D54	Detail of firebox	none		5'0" 6 wheel coupled goods engine (19" cylinders)		FALSE
129	C59	00438		Hornblock	none		Webb's compound passenger engine, Dreadnought class		FALSE
129	C59	00439	14-70	Diagram showing arrangement of cylinders and steam pipes	none		4 cylinder compound engine (F.W. Webb's system)		FALSE
129	C59	00440	15-37	Side and end elevations	none		proposed 4'3" 8 wheel coupled side tank shunter, superheated		FALSE
129	C59	00441	1-17	Brasses for connecting and coupling rods	none		4'6" 4 coupled side tank engine, 2-4-2 type		FALSE
129	C59	00442	C88	General arrangement of table carrying line sections	none		Dynamometer car		FALSE
129	C59	00443		Proposed patch for r.h. side of firebox	none		BR Standard 2-10-0 class 9	BR London Midland Region	FALSE
129	C59	00444		Proposed patch for l.h. side of firebox	none		BR Standard 2-10-0 class 9	BR London Midland Region	FALSE
129	C59	00445		Proposed patch for r.h. side of firebox	none		BR Standard 4-6-2 class 7	BR London Midland Region	FALSE
129	C59	00446		Details of ??? and waiting room	none		LNWR hospital at Crewe	Architectural plan, bottom right panel cut off	FALSE
129	C59	00447	T324	Position of gas mains	none		West Street, Crewe	Street plan	FALSE
129	C59	00448		Sectional elevation of water gauge	none		Unidentified		FALSE
130	C57	00449	12-73	Crewe Tractors - details of torque rods	none		Crewe Tractors		FALSE
130	C57	00450	12-72	Crewe Tractors - details of brake strap and fulcrum pin	none		Crewe Tractors, nos. 13 to 62 inclusive		FALSE
130	C57	00451	12-79	Crewe Tractors - details of cross beam and nut for turntable	none		Crewe Tractors, nos. 13 to 62 inclusive		FALSE
130	C57	00452	12-78	Crewe Tractors - details of steel castings for front end of frame	none		Crewe Tractors, nos. 13 to 62 inclusive		FALSE
130	C57	00453	12-77	Crewe Tractors - details of foot brake lever	none		Crewe Tractors, nos. 13 to 62 inclusive		FALSE
130	C57	00454	12-76	Crewe Tractors - details of brackets for running boards	none		Crewe Tractors, nos. 13 to 62 inclusive		FALSE
130	C57	00455	12-75	Crewe Tractors - details of cast steel housing and roller bearing for rear axle	none		Crewe Tractors		FALSE
130	C57	00456	12-74	Crewe Tractors - details of steel box cover to petrol tank	none		Crewe Tractors		FALSE
130	C57	00457	12-67	Crewe Tractors - details of chain wheels	12 Jun 1920		Crewe Tractors		FALSE
130	C57	00458	12-66	Crewe Tractors - details of rear rail axle and housing	28 May 1920		Crewe Tractors, from no. 63 inclusive		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
130	C57	00459	12-65	Crewe Tractors - details of ball housings	28 May 1920		Crewe Tractors		FALSE
130	C57	00460	12-64	Crewe Tractors - arrangement of ball bearing on rear axle	28 May 1920		Crewe Tractors, nos. 3 to 12 inclusive		FALSE
130	C57	00461	12-63	Crewe Tractors - details of front spring buffer casting	10 May 1920		Crewe Tractors		FALSE
130	C57	00462	12-62	Crewe Tractors - spring draw and buffing gear to trailing end	10 May 1920		Crewe Tractors		FALSE
130	C57	00463	12-61	Crewe Tractors - wrought steel details for spring buffers	10 May 1920		Crewe Tractors		FALSE
130	C57	00464	12-60	Crewe Tractors - turntable centre pivot and beam	5 May 1920		Crewe Tractors		FALSE
130	C57	00465	12-59	Crewe Tractors - spring draw and buffing gear to front end	none		Crewe Tractors		FALSE
130	C57	00466	12-55a	Crewe Tractors - details of back rail axle	28 May 1920		Crewe Tractors, from no. 63 inclusive		FALSE
130	C57	00467	12-55	Crewe Tractors - details of back axle (with ball bearings)	27 Aug 1917		Crewe Tractors		FALSE
130	C57	00468	12-54	Crewe Tractors - details of front axle	none		Crewe Tractors		FALSE
130	C57	00469	12-53	Crewe Tractors - details of steel stamped wheel	none		Crewe Tractors		FALSE
130	C57	00470	12-50	Crewe Tractors - details of steel underframe fitted with spring buffers	29 Oct 1917		Crewe Tractors		FALSE
130	C57	00471	12-49	Crewe Tractors - general arrangement	20 Apr 1917		Crewe Tractors	This is the key drawing for the Crewe Tractors series	FALSE
131	C63	00472	page 4a of index (see 00476)	Side and end elevations	none		Cloughton class with 5'5" diameter boiler	A very small drawing	FALSE
131	C63	00473		Side and end elevations	none		Cloughton class	A very small drawing	FALSE
131	C63	00474		Side and end elevations	none		5'0" 6 coupled compound goods engine	A very small drawing	FALSE
131	C63	00475	page 23 of index (see 00476)	Side and end elevations	none		4'3" 8 coupled side tank (superheated)	A very small drawing	FALSE
131	C63	00476		Index to 45-page book of drawings of engines	none			A very small drawing	FALSE
131	C63	00477	page 31 of index (see 00476)	Side and end elevations	none		4'3" 6 coupled coal engine	A very small drawing	FALSE
131	C63	00478	page 38 of index (see 00476)	Side and end elevations	none		2'6" 4 coupled shunter	A very small drawing	FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
131	C63	00479	page 22 of index (see 00476)	Side and end elevations	none		4'3" 8 coupled G1 class (superheated)	A very small drawing	FALSE
131	C63	00480	page 22a of index (see 00476)	Side and end elevations	none		4'3" 8 coupled G2a class (superheated)	A very small drawing	FALSE
131	C63	00481	J242	Leeds to Carlisle gradient profile	21 Mar 1924		Leeds to Carlisle gradient profile	A very small drawing	FALSE
131	C63	00482		1500 gallon oil tank - graduation scale	30 Aug 1921		1500 gallon oil tank	A very small drawing	FALSE
131	C63	00483	4.187	Diagram showing positions of reversing shaft lever	9 Nov 1922		Prince of Wales class direct motion		FALSE
131	C63	00484	H757 - M6	French standard draw hooks, drawbars, buffers and screw couplings	3 Mar 1915		French standard draw hooks, drawbars, buffers and screw couplings	Copy of drawing accompanying letter 720 3-3-1915	FALSE
131	C63	00485	E23	Through footplate	none		Precursor, George V, Experiment, Prince of Wales, 5'0" 6 coupled goods engines		FALSE
131	C63	00486	EU44	Side elevation	none		Proposed 2 cylinder 4-6-0 engine (rebuilt Prince of Wales class)	Copy of Euston print	FALSE
131	C63	00487	page 25 of index (see 00476)	Side and end elevations	none		4'3" 8 coupled G class		FALSE
131	C63	00488		Side and end elevations	none		5'0" 6 coupled goods (19" cylinders)		FALSE
131	C63	00489	J256	Side and end elevations	none		Greenore tank engine		FALSE
131	C63	00490		Side elevation	none		0-4-4 side tank engine 18" x 26" cylinders		FALSE
131	C63	00491	13-43 E23	No title - steam pipes	none		Precursor, George V and Queen Mary classes		FALSE
131	C63	00492	page 20 of index (see 00476)	Side and end elevations	none		5'0" 6 coupled special DX		FALSE
131	C63	00493		Diagram of piston ring arrangement on LNW Railway	28 Aug 1923		Crewe engines		FALSE
131	C63	00494		Rocking lever (Class 2) and adjustable crosshead for inside valve spindle	12 May 1922		not specified		FALSE
131	C63	00495	H826	Existing seating adapted to new arrangement of washout plug	19 Feb 1923		not specified		FALSE
131	C63	00496		Unidentified castings - peculiar shapes	27 Apr 1922		Classes 1, 2, 5 and 37		FALSE
131	C63	00497	T315	Site of bore hole	3 Oct 1923		Part plan of Madeley	See drawing no. 00359	FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
131	C63	00498	H825	Crank axle block - standard position of test bars	20 Feb 1923		Standard fitting		FALSE
131	C63	00499	14a	Drill guide for compensating lever - Mark 2	16 Feb 1942		Standard fitting		FALSE
131	C63	00500	14a	Drill guide for compensating lever - Mark 3	16 Feb 1942		Standard fitting		FALSE
131	C63	00501	14a	Drill guide for brake cylinder	20 Feb 1942		Standard fitting		FALSE
131	C63	00502	C61	Detail of no. and code plates	10 Jan 1923		Steam motor carriage and motor trains		FALSE
131	C63	00503	11-142	Solid forged crank axle	14 Jun 1923		4'3" 8 coupled coal engine, G2 class		FALSE
131	C63	00504		No title - bolts and threads	none		Not specified	In pencil, reference to Drawing no. 185 Mv	FALSE
131	C63	00505	13-133	Diagram of studs for external boiler fittings	2 Jul 1924		5'0" 6 coupled special DX and 4'3" 6 coupled coal engines		FALSE
131	C63	00506	? 219	Details of driving axle	29 Mar 1924		6'0" 6 wheel coupled passenger engine		FALSE
131	C63	00507	13-125	Diagram of enamelled articles	none		Standard fitting		FALSE
131	C63	00508	J251	Diagram of Caprotti Valve Gear	25 Oct 1927		Standard fitting		FALSE
131	C63	00509	T351R	Diagram of borehole no. 3	2 Jan 1930		Whitmore borehole	See drawing no. 00363, 00509, 00510	FALSE
131	C63	00510	13-137	Diagram of superheater element tubes	6 Jul 1927		LMS Division A engines		FALSE
131	C63	00511		Plan of reservoir showing proposed alterations	none		Whitmore pumping station	See drawing no. 00363, 00509, 00512, 00589, 00590	FALSE
131	C63	00512	T337	Block plan of Whitmore Pumping Station	22 Jan 1927		Whitmore pumping station	See drawing no. 00363, 00509, 00511, 00589, 00590	FALSE
131	C63	00513	CRS 4715	Details of cracking through rivet holes - 2nd barrel plate to throat plate	none		ex-LMS 2 cylinder 4-6-0 class 5, boiler no. 12932	Pencil drawing on standard Crewe template	FALSE
131	C63	00514		"The first locomotive engine built in Manchester. The Experiment engine as made by Mr Richard Roberts, Manchester, in 1833"	none		The Experiment engine of 1833		FALSE
131	C63	00515	J232	LNWR Buxton branch longitudinal section from Bibbington's sidings to Sherwin's level crossing	22 Nov 1921		Buxton branch part longitudinal section		FALSE
131	C63	00516	A85	"The Rocket" general arrangement	29 Dec 1924		The Rocket		FALSE
132	C64	00517	C19878	Arrangement of pyrometer. Lubricators and pipes	4 Nov 1915	17 Jul 1946	4'3" 8 coupled superheated coal engine	Also in Crewe main series	FALSE
132	C64	00518		Side and end elevations	9 Sep 1930		"The Lion"		FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
132	C64	00519	754	Towing hook for steam tug	Nov 1879		Steam tug (unstated whether rail or ship)		FALSE
132	C64	00520		Arrangement of platform and coaling tips	19 Jun 1868		Camden steam shed		FALSE
132	C64	00521	C19896	Arrangement and detail of india rubber water bag connection between engine and tender	3 Jan 1916		Standard fitting	Also in Crewe main series	FALSE
132	C64	00522	17	Handrail, tie bar and details	Jun 1859	20 Jul 1868	7'0" 6 wheel passenger engine		FALSE
132	C64	00523	7	Coupling rods and crank pins	16 Nov 1875		Crewe Old Goods 4-wheel coupled saddle tank engines		FALSE
133	C64	00524		Single end screw coupling for engines and tenders	8 Apr 1881		Standard fitting		FALSE
133	C64	00525	30	Cast iron ? (undecipherable)	none		7'6" passenger engine	In pencil - faint	FALSE
133	C64	00526		Arrangement for lubricator trailing axle boxes from footplate	21 Jun 1883		6'6" compound engines		FALSE
133	C64	00527		Central buffer and coupling for engine and tender	11 Nov 1887		Standard fitting	Obsolete in 1893	FALSE
134	C64	00528		Details of covering plates	none		5'0" 8 coupled goods engine, cylinders 19" dia x 26" stroke		FALSE
134	C64	00529		Details of frame plates	none		5'0" 8 coupled goods engine, cylinders 19" dia x 26" stroke		FALSE
134	C64	00530	C20131	General arrangement	20 Apr 1917		Crewe tractors		FALSE
134	C64	00531	C37128	Side elevation	6 May 1949		MOS 2-8-0 Austerity loco with 8-wheeled tender	North British Locomotive Company, Glasgow	FALSE
134	C64	00532		General arrangement and details of vacuum pipes	1 Aug 1905	18 Feb 1910	Steam motor carriage, cylinders 9 1/2" x 15"		FALSE
134	C64	00533	C33526	Arrangement of "Wakefield" fountain "G" type axlebox lubrication	30 Dec 1937	10 Mar 1944	Classes G1 and G2		FALSE
135	C65	00534		Front and rear end views	1 Aug 1923		Prince of Wales class		FALSE
135	C65	00535		General arrangement of regulator	none		Rail motor coach	Paper copy in very bad condition	FALSE
135	C65	00536		Low pressure piston and front cover	11 May 1926		4-6-2 and 2-8-2 superheated compound engines	Paper copy in very bad condition	FALSE
135	C65	00537	C19790	Side elevation and plan shewing many details	8 Oct 1912		6'0" 6 coupled passenger engine - superheated - Prince of Wales class	Paper copy in very bad condition. Also in Crewe main series	FALSE
135	C65	00538		Details of low pressure cylinders	none		Proposed 4-6-2 and 2-8-2 compound engines	Paper copy in bad condition.	FALSE
136	C65	00539		Important mechanical design details	none		Locomotive no. 790 "Hardwicke"		FALSE
136	C65	00540		Resume of important mechanical design details	none		Locomotive no. 790 "Hardwicke"	All script, no drawing	FALSE
136	C65	00541		Pencil sketch of frame	none		4-4-2 locomotive		FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
136	C65	00542	C33135	Arrangement of regulator	16 Feb 1937	7 May 1942	Black 5 - 2 cylinder 4-6-0 mixed traffic engines nos. 5000-5006 and 5020-5069		FALSE
136	C65	00543		Coal put into and taken out of stock (in stacks) Jan - Dec 1915	23 Feb 1916		Graph		FALSE
136	C65	00544		Stock and consumption of fuel daily 1 Mar - 30 April 1912 in relation to coal strike	May 1912		LNWR loco department - graph		FALSE
136	C66	00545	CR.S.1833	Hammer blow diagram	none	29 Dec 1941	2-8-0 2 cylinder taper boiler engine from nos. 8012		FALSE
136	C66	00546	26-10259	Engine number plate for smokebox door	18 Mar 1948		Standard fitting		FALSE
136	C66	00547	D05-6432	Engine number plate for smokebox door	12 Jun 1939	5 May 1944	Standard fitting - long list of classes		FALSE
136	C66	00548	D42-16506	Tender front drag box (fabricated)	30 Sep 1942	2 Oct 1942	Standard 4000 gallon tender		FALSE
137	C66	00549	C31164	Brake hanger and block	29 Jan 19??	12 Sep 1939	2-8-0 freight class 8F		FALSE
137	C66	00550	C30167	Dragbox and carrier bracket	not visible	5 Dec 1939	4000 and 3500 gallon tenders		FALSE
137	C66	00551	C33???	Tender hind dragbox (fabricated)	Nov 1942		Standard 4000 gallon tender	With two attachments: GWR instruction plate (Swindon Feb 1943) and cab notices (Swindon 1942) 2-8-0 WD engines	FALSE
137	C66	00552	C32549	Frame slotting template	20 Jan 1937?	27 Aug 1940	2-8-0 freight class 8F		FALSE
137	C66	00553	C35428	Motion girder	22 Oct 1942		2-8-0 freight class 8F		FALSE
137	C66	00554	D05-6432	Engine number plate for smokebox door	12 Jun 1934	12 Jun 1939	Standard fitting - 5 locomotive classes		FALSE
137	C66	00555	D37-15022	Instruction plates, cards and cases	22 Jul 1937	8 Mar 1943	Many loco classes		FALSE
138	C66	00556	C32414	Smokebox deflector plates	28 Mar 1936	13 Apr 1939	2 cylinder 2-6-0 and 2-8-0 locomotives		FALSE
138	C66	00557	C32442	Handrails, pillars and brackets	5 Feb 1936	22 Dec 1942	2-8-0 freight class 8F		FALSE
138	C66	00558	C35369	Frame arrangement	20 Jun 19??	9 Oct 1942	2-8-0 freight class 8F	Also in main Crewe series	FALSE
138	C66	00559	C32520	Arrangement of blow-down apparatus	21 Jan 1936	24 May 1938	Standard 4000 gallon tender with welded tank		FALSE
139	C67	00560	C33426	2 copies of General arrangement 4000 gallons tender (streamlined)	15 Sep 1937		4000 gallon tender type 3 for 4-6-2 passenger engine	2 copies of paper drawing - 1 more copy in Crewe main series	FALSE
139	C67	00561	C30903	Frame for 4000 gallon tender	none	14 Oct 1943	standard 4000 gallon tender		FALSE
139	C67	00562	C35143	Motion arrangement	3 Dec 1941		2-8-0 freight class 8F	Also in main Crewe series	FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
140	C68	00563		Detail of driving axle	20 Mar 1934		8'6" passenger engine "Cornwall"	Modern version of old drawing	FALSE
140	C68	00564		Circular smokebox front and door	20 Mar 1934		8'6" passenger engine "Cornwall"	Modern version of old drawing	FALSE
140	C68	00565		Link and valve spindle guide	20 Mar 1934		8'6" passenger engine "Cornwall"	Modern copy of old drawing date 20 Aug 1858	FALSE
140	C68	00566		Reversing shaft and lifting link	20 Mar 1934		8'6" passenger engine "Cornwall"	Modern copy of old drawing date 20 Aug 1858	FALSE
140	C68	00567		Detail of axle and axlebox	20 Mar 1934		8'6" passenger engine "Cornwall"	Modern version of old drawing	FALSE
140	C68	00568		General arrangement and details of screw reversing gear	20 Mar 1934		8'6" passenger engine "Cornwall"	Modern version of old drawing	FALSE
140	C68	00569		Hand reversing gear	20 Mar 1934		8'6" passenger engine "Cornwall"	Modern copy of old drawing date 20 Aug 1858	FALSE
140	C68	00570		Rocking shaft	20 Mar 1934		8'6" passenger engine "Cornwall"	Modern version of old drawing	FALSE
141	C57	00571	2-76	Position of injector internal delivery pipes	20 Nov 1920		WD 2-8-0 engines		FALSE
141	C57	00572	PC 10839 and 14603	Metallic packing for piston rods, reference letters S and T	29 Oct 1920		Standard fittings		FALSE
141	C57	00573	H795	Standard 8mm and 10mm restarting injectors	11 Oct 1920		Stationary boilers		FALSE
141	C57	00574		New brake hanger and block	none		5'6" 6 coupled side tank engine	a very small drawing	FALSE
141	C57	00575		Details of cast iron brake blocks (for contractors)	12 Jul 1920		Standard fittings	a list of numbers for each version attached	FALSE
141	C57	00576		Arrangement of girders for craneway and wall over traverser pit	17 Apr 1920		Nos.5, 6, 7 and 8 erecting shops, presumably Crewe		FALSE
141	C57	00577	11-128	Details of driving axlebox	17 Aug 1920		G1 class, 4'3" 8 coupled coal engine (superheated)	Also used for classes B, C, C1, D, E, F, G	FALSE
141	C57	00578	11-125	Alteration to junk ring and studs for piston head	8 Jun 1920		Engines with 20 1/2" cylinders (superheated)		FALSE
141	C57	00579		Details of footstep pads	28 Apr 1920		Prince of Wales class		FALSE
141	C57	00580	J220	Experimental trip between Glasgow (Mossend) and Carlisle (Kingmoor) on January 18 1920, dynamometer diagram between Motherwell and Braidwood	29 Jan 1920		Class G1 no. 2421 hauling mixed goods train	Load behind tender 892T 16C 3Q	FALSE
141	C57	00581	H780	Details of bottom gauge cock (with ball valve)	8 Dec 1919		Standard water gauge		FALSE
141	C57	00582	J219	Caledonian Railway: section Carlisle - Glasgow Buchanan Street	13 Nov 1919		Gradient profile		FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
141	C57	00583	11-121	Details of tubes and joints	11 Aug 1919		G1 and G2 classes, 4'3" 8 coupled coal engines (superheated)		FALSE
141	C57	00584	D95	Details of boiler and firebox plates	30 Jul 1919		5'0" 6 wheels coupled goods engine (19" cylinders)		FALSE
141	C57	00585	P94	General arrangement of firebox	28 Jul 1919		5'0" 6 wheels coupled goods engine (19" x 26" cylinders)		FALSE
141	C57	00586	11-118	Details of boiler mountings	16 Jul 1919		G1 and G2 classes, 4'3" 8 coupled coal engines (superheated)	Crewe PC 7156, 18676, 18156	FALSE
141	C57	00587	13-111	Diagram of copper plates for fire-boxes	11 Jun 1919		Cloughton class 6'6" 6 coupled passenger engine		FALSE
141	C57	00588		Side and end elevations	7 Jan 1919		Great Central Railway 2-8-0 Consolidation type		FALSE
141	C57	00589	T277d	Plan of Whitmore reservoir	none		Whitmore reservoir	see drawings nos. 00363, 00509, 00511, 00512, 00590	FALSE
141	C57	00590	T277b	Plan and general section at reservoir	12 Dec 1918		Whitmore reservoir	see drawings nos. 00363, 00509, 00511, 00512, 00589	FALSE
141	C57	00591	H768	Elevations and details	8 Nov 1918		Locomotive crane to lift 3 tons		FALSE
141	C57	00592	J245	Vacuum brake tests with dynamometer car between Oxford and Bletchley, June 13 1918	26 Jun 1918		GWR 6'6" 6 coupled 4 cyl. engine no. 4014 and LNWR George V class no. 896	1 trip in each direction with each engine	FALSE
141	C57	00593	H160	Detail of steam valve for restarting injectors	26 Mar 1918		Standard fitting		FALSE
141	C57	00594	10-87	Details of frame plates for 3000 gallon tenders with sloping bunkers etc.	20 Mar 1918		G2 class 4'3" 8 coupled coal engine (superheated)		FALSE
141	C57	00595	1-21	Details of wheels, tyres and axles	28 Jun 1917		4'6" 4 coupled side tank (8 wheels)		FALSE
142	C69	00596	C32018	General arrangement - journal lapping machine	23 May 1935	10 Dec 1935	Works machine	Paper drawing	FALSE
142	C69	00597	C32008	Arrangement and detail of reduction gear bedplate - journal lapping machine	17 May 1935	10 Dec 1935	Works machine	Paper drawing	FALSE
142	C69	00598	C31314	Wheel rotating gear, arrangement and details - journal lapping machine	19 Jul 1934	10 Dec 1935	Works machine	Paper drawing	FALSE
142	C69	00599	C31300	Arrangement and details of trolley traversing gear - journal lapping machine	13 Jul 1934	10 Dec 1935	Works machine	Paper drawing	FALSE
142	C69	00600	C31212	Details of trolley for journal lapping machine	31 May 1934	10 Dec 1935	Works machine	Paper drawing	FALSE
142	C69	00601	C31211	Arrangement of trolleys - journal lapping machine	none	10 Dec 1935	Works machine	Paper drawing	FALSE
142	C69	00602	C31319	Motor pulley - journal lapping machine	23 Jul 1934	23 Jul 1934	Works machine	Paper drawing	FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
142	C69	00603	C31224	Split pulley lap - journal lapping machine	6 Jun 1934	6 Jun 1934	Works machine	Paper drawing	FALSE
143	C70	00604	C32753	General arrangements - end views	none		Not stated	Paper drawing	FALSE
143	C70	00605	C38016	Side and end elevations	16 Mar 1966		1'6" gauge tramway engine "Pet"	Paper drawing - 2 copies. Original in main Crewe series	FALSE
143	C70	00606		Detailed drawings	16 Mar 1966		LNWR 3000 gallon tender with sloping bunker	Paper drawing	FALSE
143	C70	00607	C30890	Tank arrangement	2 Mar 1967		4000 gallon tender	Paper drawing	FALSE
143	C70	00608		Arrangement of vacuum controlled regulator gear for motor train working	3 Jan 1957		5'6" 4 coupled side tank passenger engine	Paper drawing	FALSE
143	C70	00609	C21494	Cast iron baseplate for Ross type safety valve	3 Mar 1923		Division A engines	Paper drawing. Original in main Crewe series	FALSE
143	C70	00610		Side and end elevations	16 Mar 1966		G2 class 4'3" 8 coupled engine (superheated)	Paper drawing	FALSE
143	C70	00611		Side and end elevations	9 Sep 1030		Locomotive 'Lion'	Paper drawing - 2 copies	FALSE
143	C70	00612	C33448	Arrangement of welded tank	bef 17 Jan 1938	30 Sep 1966	4000 gallon tender - increased coal capacity	Paper drawing - very torn	FALSE
143	C70	00613		General arrangement of auto vacuum brake gear	29 Oct 1890	20 Mar 1950	5'6" side tank passenger engine	Paper drawing - torn	FALSE
143	C70	00614		Rods	none		4'3" 8 coupled coal engine (20 1/2" cylinders) new engines	Paper drawing - torn	FALSE
144	C72	00615	C29135	Elevation and end views	22 Feb 1907		5'0" 6 wheel coupled 4 cylinder compound goods engine	Paper drawing. Also in main series. 1st engine built March 1903	FALSE
144	C72	00616	C29136	Elevation and plan	9 Jul 1900		5'0" 6 wheel coupled 4 cylinder compound goods engine	Paper drawing. Also in main series.	FALSE
144	C72	00617	C32444	Clothing arrangement	12 Feb 1936	23 May 1944	2-8-0 superheated freight engine with sloping throat plate	Paper drawing. Also in main series.	FALSE
144	C72	00618	C32540	Backplate and mountings - taper boiler	25 Feb 1936	14 Jan 1944	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	Paper drawing. Also in main series.	FALSE
144	C72	00619	C32725	Grease gun lubrication - shed chart (not including parts oiled daily by driver)	none		2 cyl 2-8-0 freight engine	Paper drawing. Also in main series.	FALSE
144	C72	00620	C32523	Pipe and rod arrangement end views	31 Mar 1936	7 Dec 1960	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	Paper drawing. Also in main series.	FALSE
144	C72	00621	C32522	Pipe and rod arrangement elevation and plan	20 Feb 1936	7 Dec 1960	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	Paper drawing. Also in main series.	FALSE
144	C72	00622	C33607	Motion arrangement	8 Aug 1938	28 Dec 1939	2 cyl 2-8-0 freight	Paper drawing. Also in main series.	FALSE
144	C72	00623	C32436	Smokebox arrangement	26 Mar 1936	25 Oct 1954	2 cyl 2-8-0 freight with sloping throat plate	Paper drawing. Also in main series.	FALSE
144	C72	00624	C32129	Boiler arrangement	19 Oct 1935	3 Feb 1953	2-8-0 superheated freight engine with sloping throat plate	Paper drawing. Also in main series.	FALSE

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Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
144	C72	00625	C24926	Particulars for painting tenders	4 May 1927		M.M. tenders redesigned for Claughton and Prince of Wales classes	Paper drawing. Also in main series. 2 copies.	FALSE
144	C72	00626	C33551	Smokebox arrangement	12 Apr 1938	25 Oct 1954	2 cyl 4-6-0 MT engines	Paper drawing. Also in main series.	FALSE
144	C72	00627	C32353	Smokebox arrangement	none	25 Oct 1954	2 cyl 4-6-0 MT engines with sloping throat plate	Paper drawing	FALSE
144	C72	00628	D36-14688	Arrangement of back plate and mountings	illegible	11 Nov 1949	Princess Coronation 4-6-2 class	Paper drawing	FALSE
144	C72	00629		Firebox arrangement	illegible	8 Nov 1956	Princess Coronation 4-6-2 class	Paper drawing	FALSE
144	C72	00630	C33426	General arrangement 4000 gallons tender (streamlined)	15 Sep 1937		4000 gallon tender type 3 for 4-6-2 passenger engine	Paper drawing. Also in main series.	FALSE
144	C72	00631	D37-15138	Cab arrangement	illegible	15 Jan 1960	Princess Coronation 4-6-2 class	Paper drawing	FALSE
144	C72	00632	D36-?????	Boiler arrangement	illegible	8 Nov 1956	Princess Coronation 4-6-2 class	Paper drawing	FALSE
144	C72	00633	C32313	Clothing arrangement	15 Nov 1937	30 Nov 148	2 cyl 4-6-0 MT engines	Paper drawing	FALSE
144	C72	00634	C34016	Smokebox arrangement with "K-C" blast pipe	14 Mar 1939	25 Oct 1954	One locomotive of the Princess Coronation 4-6-2 class	Paper drawing	FALSE
144	C72	00635	D37-?????	Clothing arrangement	illegible	19 Jan 1948	Princess Coronation 4-6-2 class	Paper drawing	FALSE
144	C72	00636	C32312	Backplate and mountings. Taper boiler	7 Jan 1936	7 Apr 1944	2 cyl 4-6-0 MT engines with sloping throat plate	Paper drawing	FALSE
144	C72	00637	C32724	Grease gun lubrication - shed chart (not including parts oiled daily by driver)	none		2 cyl 4-6-0 MT engines	Paper drawing	FALSE
144	C72	00638	C32247	Internal pipe arrangement	21 Jan 1936	22 Sep 1950	2 cylinder 4-6-0 with taper boiler and sloping throat	Paper drawing	FALSE
144	C72	00639		Frame arrangement	illegible	15 Nov 1950	2 cylinder 4-6-0 with taper boiler and sloping throat	Paper drawing	FALSE
145	C73	00640		Diagram showing speed and pull of drawbar during trip with 12.58pm ex Carlisle to Crewe, 7 July 1909	none		CR engine no 903 "Cardean"	Paper drawing	FALSE
145	C73	00641		Indicator diagrams taken between Liverpool and Crewe, 5 Sep 1898, load 16 1/2 coaches	none		Loco no. 1501 "Diamond Jubilee"	Paper drawing	FALSE
145	C73	00642		Indicator diagrams taken between Euston - Crewe, 2 Nov 1913, and Crewe - Carlisle, 4 Nov 1913	9 Feb 1914		Claughton class no. 1159 "Ralph Brocklebank"	Paper drawing	FALSE
145	C73	00643	J97	Indicator diagrams taken between Crewe and Rugby while working an experimental train, 27 Mar 1904	9 Apr 1904		Precursor class no. 513	Paper drawing	FALSE
145	C73	00644		Diagram of experimental trips between Crewe and Stafford, 1 Apr 1894	25 Apr 1894		4'3" 8 wheel coupled coal engine no. 2524 and 4'3" 8 wheel coupled compound coal engine no. 50	Paper drawing. 2 copies	FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
145	C73	00645		Indicator diagrams taken between Crewe and London, 29 Aug 1915	24 Mar 1915		Engine no. 1361, "Prospero" fitted with DM valve arrangement	Paper drawing	FALSE
145	C73	00646		Experimental trips between Crewe and Stafford, 1 Apr 1894	25 Apr 1894		4'3" 8 wheel coupled coal engine no. 2524 and 4'3" 8 wheel coupled compound coal engine no. 50	Paper drawing. 2 copies	FALSE
145	C73	00647		Results of experimental trips between Crewe and Stafford 27 Sep 1903	10 Nov 1903		Engine no. 1952 "Benbow"	Paper drawing	FALSE
145	C73	00648		Diagram of trip with 57 loaded coal wagons and three brake vans between Rugby and Willesden, 16 Jul 1893, length of trip 77 miles	24 Jul 1893		8 wheeled coal engine no. 2524	Paper drawing	FALSE
145	C73	00649		Diagrams of engines and trains as they left Crewe on the 1st experimental trip between Crewe and Stafford, 1 Apr 1894	27 Apr 1894		4'3" 8 wheel coupled coal engine no. 2524 and 4'3" 8 wheel coupled compound coal engine no. 50	Paper drawing	FALSE
145	C73	00650	J186	Speed trials. Diagram of non-stop run Crewe and Carlisle, 15 Oct 1911	20 Oct 1911		George V class "George V" fitted with Frodsham speed indicator, driver T. Jones	Paper drawing. 2 copies	FALSE
145	C73	00651		Speed trials. Diagram of non-stop run Euston and Crewe, 8 Oct 1911	13 Oct 1911		George V class no. 2623 "George V" fitted with Frodsham speed indicator, driver T. Jones	Paper drawing	FALSE
145	C73	00652	J187	Speed trials. Diagram of non-stop run Crewe and Euston, 8 Oct 1911	13 Oct 1911		George V class no. 2623 "George V" fitted with Frodsham speed indicator, driver T. Jones	Paper drawing	FALSE
145	C73	00653		Diagram showing speed and pull of drawbar during trip with 10.00am ex Euston to Crewe, 26 Jun 1909	none		GNR 4-4-2 no. 1449, driver T. Bartlett, pilot J. Button	Paper drawing	FALSE
145	C73	00654		Diagram showing speed and pull of drawbar during trip with 12.580.00am ex Carlisle to Crewe, 10 Jul 1909	none		Experiment class no. 2630 "Buffalo"	Paper drawing	FALSE
145	C73	00656		Diagram showing speed, indicated horsepower and pull of drawbar during trip with experimental passenger train between Crewe and Euston, 24 Jul 1910, with 1 stop at Rugby	8 Aug 1910		George V class no. 2663	Paper drawing	FALSE
145	C73	00655		Diagram showing speed and pull of drawbar during trip with 10.00 am Euston to Crewe, 25 Jun 1909	none		Precursor class no. 510 "Albatross", driver Robbins	Paper drawing	FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
145	C73	00657		Diagram showing speed, indicated horsepower and pull of drawbar during trip with experimental passenger train between Crewe and Carlisle, 21 May 1905	16 Jun 1905		Experiment class no. 66	Paper drawing	FALSE
145	C73	00658		Diagram showing speed, indicated horsepower and pull of drawbar during trip with experimental passenger train between Euston and Crewe, 24 Jul 1910	10 Aug 1910		George V class no. 2663	Paper drawing	FALSE
145	C73	00659		Diagram showing speeds, drawbar pull and horsepower developed during trial trip between Crewe and Ruby, 27 Mar 1904	9 Apr 1904		Precursor class no. 513	Paper drawing	FALSE
145	C73	00660		Diagram showing speeds, drawbar pull and horsepower developed during trial trip between Rugby and Crewe, 27 Mar 1904	9 Apr 1904		Precursor class no. 513	Paper drawing	FALSE
145	C73	00661		Diagram showing speed, indicated horsepower and pull of drawbar during trip with experimental passenger train between Carlisle and Crewe, 21 May 1905	6 Jun 1905		Experiment class, no. 66	Paper drawing	FALSE
146	C71	00662	C20244	Diagram of Joy's Valve motion	29 Oct 1917		Standard fitting	Ozalid	FALSE
146	C71	00663	C11022	Not titled	none		Not given		FALSE
146	C71	00664	C19822	Arrangement of valve motion	23 Jun 1915		Class G1 4'3" 8 coupled engine (superheated)	Ozalid	FALSE
146	C71	00665	C18479	Sections	1910		George V Class 6'6" 4 coupled passenger engine	Ozalid	FALSE
146	C71	00666	C12266	Standard cast steel wheel with standard tyre for tenders	2 Feb 1897?		Standard fitting	Ozalid	FALSE
146	C71	00667	C19135	Sections	14 Apr 1913		Cloughton class 6'6" 6 coupled passenger engine	Ozalid - very dark	FALSE
146	C71	00668	C32901	Streamlined tank arrangement	none	Mar 1961	4000 gallon tender, type III	Ozalid - very dark	FALSE
146	C71	00669	C37765	Firebox arrangement	none	5 Jun 1948	2-8-0 Austerity, type 07	Ozalid	FALSE
146	C71	00670	C35746	Side and end elevations	15 Aug 1893		4'3" 8 wheel coupled compound coal engine	Ozalid	FALSE
146	C71	00671	C32723	Side and end elevations and plan	2 Feb 1903		Standard 2500 gallon tender	Ozalid	FALSE
146	C71	00672		Side elevation and plan	9 Feb 1904		6'6" 4 wheel coupled passenger engine with Joy's valve motion	Ozalid	FALSE

Unnumbered Drawings List

Box No	Prefix	Number	Old number	Title	Earliest date	Latest date	Classes of Locomotive	Other information	Aperture Card
146	C71	00673	C28514	End views	21 Mar 1904		6'6" 4 wheel coupled passenger engine with Joy's valve motion	Ozalid - very dark	FALSE
146	C71	00674	C27974	Elevation and plan	11 Apr 1894		5'6" 4 wheel coupled 8 wheel side tank engine	Ozalid	FALSE
146	C71	00675	C27973	End views	11 Apr 1894		5'6" 4 wheel coupled 8 wheel side tank engine	Ozalid	FALSE
146	C71	00676	C33426	General arrangement	Sep 1937		4000 gallon streamlind tender	Ozalid	FALSE
146	C71	00677	C33886	Smokebox arrangement	none	25 Oct 1954	4-6-2 Princess Coronation class passenger engine	Ozalid	FALSE
149	Misc	00678	CRS/727	Actual weight and centre of gravity	none		4-6-2 boiler with combustion chamber	Pencil tracing - badly torn	FALSE
149	Misc	00679	CRS/1217	Diagram giving actual weight and centre of gravity	none		4-6-2 Princess Coronation class boiler with combustion chamber, nos. 6220-4	Pencil tracing	FALSE
149	Misc	00680	62-20	General arrangement	23 Sep 1892		The "Rocket"		FALSE
149	Misc	00681	H17651	Crank pins	14 Aug 1935	31 Oct 1956	2-6-0 superheated goods with parallel boiler (Crab), nos. 2700-2944		FALSE

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
170	C	8252		Stephenson's valve motion	4 Feb 1927	For five 4'3" and 5'0" goods engines - 2 copies
170	C	10180		Details of valve motion	18 Dec 1924	5'0" 6 coupled goods engine (18" cylinders) - 4 copies
170	C	11685		Duplex safety valve	n.d.	
170	C	11821		Framework for radial truck	3 Aug 1896	4'3" 4 wheel coupled shunting engine
170	C	12022		Details of trailing buffer beam	19 Aug 1896	4'3" 4 wheel coupled shunting engine
170	C	16855		Details of engine number plate shewing arrangement of figures	7 Apr 1915	Original drawing in main series
170	C	18971		General arrangement of ashpan and firebars	5 Jun 1914	Cloughton class - original drawing in main series
170	C	18971		Diagram of firebox and ashpan	n.d.	Rider to 18971 - original drawing in main series
170	C	19657		2AT: details of special plates for armoured train - sheet 1	n.d.	Original drawing in main series
170	C	19658		3AT: details of special plates for armoured train - sheet 2	n.d.	Original drawing in main series
170	C	19660		4AT: details of special and standard angles and tees for armoured train	n.d.	Original drawing in main series
170	C	19661		10AT: details of special and standard angle irons and tees for armoured train	n.d.	Original drawing in main series

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
170	C	19662		5AT: details of holes in special plates for armoured train - sheet 1	n.d.	Original drawing in main series
170	C	19663		7AT: details of holes in special plates for armoured train - sheet 2	n.d.	Original drawing in main series
170	C	19665		8AT: details for bolting down of pedestal	n.d.	Original drawing in main series
170	C	19668		11AT: details of shields under frame also miscellaneous details	n.d.	Original drawing in main series
170	C	19670		13AT: vacuum brake and regulator gear pipes	n.d.	Original drawing in main series
170	C	19677		16AT: details of wood flooring	11 Mar 1915	Original drawing in main series
170	C	19679		15AT: details of rifle racks and mess tables in infantry van	19 Mar 1915	Original drawing in main series
170	C	19684		18AT: details of drinking water tanks and reserve water tanks	11 Mar 1915	Original drawing in main series
170	C	19687		9AT: details of partition in gun truck	n.d.	Original drawing in main series
170	C	19690		21AT: arrangement and details of tanks under infantry van	n.d.	Original drawing in main series
170	C	19739		6AT: details of roof plates	n.d.	Original drawing in main series
170	C	19740		19AT: arrangement of latrines	11 Mar 1915	Original drawing in main series
170	C	19741		12AT: details of pigeon holes in gun truck	11 Mar 1915	Original drawing in main series

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
170	C	19745		14AT: arrangement and details of ammunition boxes for gun trucks	11 Mar 1915	Original drawing in main series
170	C	19746		17AT: details of cupboards and lockers	11 Mar 1915	Original drawing in main series
170	C	19747		23AT: plans showing fittings in infantry vans	n.d.	
170	C	19748		2AT: details of wardrobes and cabinets in infantry van	19 Mar 1915	Original drawing in main series
170	C	0	No number	20AT: detail of coal bunker in van	n.d.	
170	C	19802		Details of splashers	7 Apr 1915	4'3" 8 coupled coal engine (superheated) class G, original drawing in main series
170	C	26648		Relation of George the Fifth, G1 & G2 classes to Midland Division loading gauge	30 Jan 1928	Original drawing in main series
170	C	28817		Elevation of 6'0" 4 wheel coupled side tank passenger engine	23 Feb 1932	6'0" 4 wheel coupled side tank passenger engine
170	C	30675		Tender axlebox	30 May 1941	3500 and 4000 gallon tenders
170	C	30902		Axlebox guides and clip	31 Jan 1958	Standard 4000 gallon tender
170	C	30972		Profile shewing extreme throwovers on 6 chain curve	29 Dec 1933	2-8-0 superheated freight engine - 2 copies
170	C	32031		Arrangement of welded tank	4 Sep 1936	Standard 4000 gallon tender - 2 copies

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
170	C	32752		General arrangement, elevation and pla	n.d.	4-6-0 mixed traffic engine with taper boiler and sloping throat plate
170	C	32979		Cover boxes for handbrake and pick-up gear	5 Dec 1936	4000 gallon tenders with welded tanks
170	C42	885		Profile of 2-8-0 engine shewing extreme throwovers on a 6 chain curve	n.d.	Not from main Crewe series
170	CRS	2292		Headlamp bracket of American engines showing where to be ground to suit LMS lamps	n.d.	Not from main Crewe series
170	CRS	2292	A (suffix)	Headlamp bracket of American engines showing where to be ground to suit LMS lamps	n.d.	Not from main Crewe series
170	CRS	4205		Arrangement of projection box	n.d.	Not from main Crewe series
171	C/UN	001		15 1/4" cylinder for Old Goods Engine (class "Commodore", "Lonsdale", etc)	29/10/1861	
171	C/UN	002		Firebar and ashpan arrangement for 6' 6" Passenger Engine (SL) no 978	25/04/1862	
171	C/UN	003		Six wheels Coupled Goods and 6' 6" and 7' Passenger Engines. Firebrick arches for fireboxes without air holes.	02/06/1862	

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
171	C/UN	004		Six wheels Coupled Goods and 6' 6" and 7' Passenger Engines (SD). Firebrick arches for fireboxes without air holes.	02/06/1862	
171	C/UN	005		Six Wheels Coupled Goods Engines (SD). Firebrick arches for fireboxes without air holes.	02/06/1862	
171	C/UN	006		Firebar and ashpan arrangement for 16" 7' Passenger Engines (SD)	03/06/1862	
171	C/UN	007		Alteration of bottom of smokebox and cylinders of Four Wheels Coupled Goods Engines nos 628, 724, 748, 764, 792-795, 831, 836, 606, 616, 622, 633, 634, 806 and all duplicates of this class	10/06/1862	
171	C/UN	008		Alteration of bottom of smokebox and cylinders of Four Wheels Coupled Goods Engines nos 628, 724, 748, 764, 792-795, 831, 836, 606, 616, 622, 633, 634, 806 and all duplicates of this class.	10/06/1862	
171	C/UN	009		16" cylinder cover for 5' 6" Six Wheels Coupled Goods Engines	26/06/1862	
171	C/UN	010		15" Mixed Traffic Tank Engines. Firebrick arch as applied to fireboxes with air holes.	01/07/1862	

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
171	C/UN	011		Arrangement of firebars for Passenger Engines (SD)	July 04/07/1862	
171	C/UN	012		Leading spring for 6' 6" Passenger Engines	00/08/1862	
171	C/UN	013		Firebox damper gear for 6' Four Wheels Coupled Passenger Engines	10/09/1862	
171	C/UN	014		Firebrick arches for engines with and without air holes	October 01/10/1862	
171	C/UN	015		Regulator steam and exhaust pipes for 16" Six Wheels Coupled Goods Engines with 5' 6" wheels (SD)	October 09/10/1862	
171	C/UN	016		16" Passenger and Goods Engines. Suction pipe joint and hangers.	23/10/1862	London and North Western Railway
171	C/UN	017		16" Goods and Passenger Engines. Connecting rod.	23/10/1862	London and North Western Railway
171	C/UN	018		16" Goods Engines. Crank axle.	23/10/1862	London and North Western Railway
171	C/UN	019		Crosshead for 16" Goods and Passenger Engines (5' 6", 6' 6" and 7' wheels)	23/10/1862	
171	C/UN	020		16" Passenger and Goods Engines. Valve spindles crossheads.	23/10/1862	
171	C/UN	021		Lamp irons for engines and tenders	23/10/1862	London and North Western Railway

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
171	C/UN	022		Gearing for cylinder cocks for 5' 6" Goods and 7' Passenger Engines.	24/10/1862	
171	C/UN	023		5' 6" Express Goods Engines (Wolverton Works and Kitson & Co) and 5' Mineral Engines (Stothert & Co). Leading axlebox.	11/11/1862	
171	C/UN	024		5' 6" Express Goods Engines (Wolverton Works and Kitson & Co) and 5' Mineral Engines (Stothert & Co). Leading axlebox.	11/11/1862	
171	C/UN	025		5' 6" Express Goods Engines (Wolverton Works and Kitson & Co) and 5' Mineral Engines (Stothert & Co). Driving axlebox.	13/11/1862	
171	C/UN	026		5' 6" Express Goods Engines (Wolverton Works and Kitson & Co) and 5' Mineral Engines (Stothert & Co). Driving axlebox.	13/11/1862	
171	C/UN	027		Piston and cylinder cover for Fairbairns 5' 9" Passenger Engine no 898	13/11/1862	
171	C/UN	028		Smithwork for ashpan damper gear for 6' Four Wheels Coupled Passenger Engines	29/11/1862	

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
171	C/UN	029		Footsteps for 1500 gallon tenders (SD)	19/12/1862	
171	C/UN	030		Buffer spring for 1500 gallon tenders (SD)	22/12/1862	
171	C/UN	031		Valve for 1500 gallon tenders (SD)	29/12/1862	
171	C/UN	032		Leading spring for 6' 6" Passenger Engines (SD)	1862	
171	C/UN	033		Brake block hangers and rods for 1500 gallon tenders	01/01/1863	
171	C/UN	034		16" Goods and Passenger Engines. Tender axles.	03/01/1863	
171	C/UN	035		Axlebox for 1500 and 2000 gallon tenders (SD)	06/01/1863	
171	C/UN	036		Wheel for 1500 gallon tenders (SD)	07/01/1863	
171	C/UN	037		Driving axlebox for 6' 6" Passenger Engines	19/01/1863	
171	C/UN	038		16" piston and cylinder cover for 6' 6" Passenger Engine	14/02/1863	
171	C/UN	039		Waste steam cock for 16" Goods Engine (5' 6" wheels)	03/03/1863	
171	C/UN	040		Arrangement of warming pipe for 5' 6" Six Wheels Coupled Goods Engines	04/03/1863	
172	C/UN	041		15" piston and cylinder cover for class M no 988 and class G no 725	16/04/1863	

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
172	C/UN	042		Arrangement of handrail on smokebox for 6' 6" and 7' Passenger Engines	08/05/1863	
172	C/UN	043		Cylinder mud cock gear for 6' Four Wheels Coupled Passenger Engines	04/06/1863	
172	C/UN	044		Leading spring rocker	10/07/1863	
172	C/UN	045		Details of reversing gear for Four Wheel Shunting Engine	09/08/1863	
172	C/UN	046		Coal box for Four Wheel Shunting Engine	04/09/1863	
172	C/UN	047		6 1/2" trailing axlebox and hornblock for goods and tank engines with crooked frames	01/02/1864	
172	C/UN	048		6 1/2" driving axlebox and hornblock for goods and tank engines with crooked frames	03/02/1864	
172	C/UN	049		30-cwt snatch block	28/11/1864	
172	C/UN	050		Ashpan damper gear for 7' 6" Passenger Engine (DD)	09/12/1864	
172	C/UN	051		Firebox damper gear for 7' 6" Passenger Engine (DD)	09/12/1864	
172	C/UN	052		Cylinder petcock gear for 7' 6" Passenger Engine (DD)	09/12/1863	
172	C/UN	053		Section of 3' 6" wheel	29/12/1864	
172	C/UN	054		Tubeplate for 6' 6" Passenger Engines with telescopic boilers	10/01/1865	
172	C/UN	055		Tank Engine. Reversing handle and quadrant.	22/02/1865	

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
172	C/UN	056		Details for Sharp's Six Wheels Coupled Tank Engine	23/02/1865	
172	C/UN	057		Bracket for carrying damper and cylinder mud cock rods for 7' 6" Passenger Engine	17/03/1865	
172	C/UN	058		Trailing hornblock for Shunting Engine	08/05/1865	
172	C/UN	059		6' 6" Passenger Engine (SD). Valve motion	12/06/1865	
172	C/UN	060		6' 6" Passenger Engine (SD). Details of valve gear	13/06/1865	
172	C/UN	061		Arrangement of stays and side angle irons for 7' 6" Passenger Engines	15/06/1865	
172	C/UN	062		15 1/4" cylinder Goods Tank Engine (small firebox). Details of brake gear	31/10/1865	
172	C/UN	063		15 1/4" cylinder Goods Tank Engine (small firebox). Details of brake gear	02/11/1865	
172	C/UN	064		Ferrule for 1 7/8" tubes	02/01/1866	
172	C/UN	065		Double beat throttle valve for 4" steam pipes	25/01/1866	
172	C/UN	066		Eccentric straps for 5' 6" Express Goods Engines	08/02/1866	
172	C/UN	067		Spring for 1500 gallon tenders	12/03/1866	
172	C/UN	068		Arrangement of feed valve for SD tenders	27/06/1866	

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
172	C/UN	069		Alteration of oil cup for small ends of connecting rods (DX class)	21/07/1866	
172	C/UN	070		Alteration of cranked axle ingot mould	26/07/1866	
172	C/UN	071		Untitled drawing of DX axle	02/08/1866	
172	C/UN	072		Ferrule for 1 7/8" tubes	30/08/1866	
172	C/UN	073		Driving and trailing hornblock for 6' 6" Four Wheels Coupled Passenger Engine	26/09/1866	
172	C/UN	074		8" expansion joint	27/10/1866	
172	C/UN	075		Cast iron hornblock for tenders	09/11/1866	
172	C/UN	076		Injector details for 7' 6" Passenger Engines (outside cylinder)	06/12/1866	
172	C/UN	077		T-pipe for Engine M & N	15/02/1867	
172	C/UN	078		Cylinders for 6' Passenger Engines (outside cylinders)	26/02/1867	
172	C/UN	079		16" cylinder Four Wheels Coupled Tank Engines	06/03/1867	
172	C/UN	080		Alteration of top of cranked axle ingot mould	07/03/1867	
173	C/UN	081		Tube-drift with ring and cotter	09/07/1867	
173	C/UN	082		Passenger Engines FM class. Driving hornblock	15/07/1867	
173	C/UN	083		Tender buffer to replace those with India Rubber springs	27/08/1867	
173	C/UN	084		16" Goods and Passenger Engines. Tender axle	03/01/1868	L & NWR Wolverton drawing

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
173	C/UN	085		Sharps CP Engines. Suction valve	31/03/1868	
173	C/UN	086		Pattern W13 and template for Engine no 1124	24/06/1868	
173	C/UN	087		Boiler for Goods Engine (Beyer & Peacock)	07/08/1868	
173	C/UN	088		Tool for getting up tender feed valves seatings in their places	13/08/1868	
173	C/UN	089		Crank axle for 469 Tank Engine	05/10/1868	
173	C/UN	090		Leading axlebox for 7' Passenger Engine (SD)	17/11/1868	
173	C/UN	091		Arrangement of firebars for Sharp SCP Tank Engines	14/12/1868	
173	C/UN	092		Sharp CP Tank Engines. Eccentric and rods	14/12/1868	
173	C/UN	093		Sharps NE Passenger Engines. Details of dry sandbox	19/01/1869	
173	C/UN	094		Four Wheels Coupled Goods Engines (class A). Axle	12/03/1869	
173	C/UN	095		Middle clackbox for 18" Tank Engines (rebuilt at Wolverton)	21/09/1869	
173	C/UN	096		Trailing axlebox for Tank Engines N (SD)	04/06/1869	
173	C/UN	097		Bury's 6' Passenger Engine. Injector details	08/12/1869	
173	C/UN	098		5' 6" Express Goods Engine. Valve spindle crosshead	09/02/1870	

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
173	C/UN	099		Driving and trailing hornblock for 6' 6" Four Wheels Coupled Passenger Engine	21/02/1872	
173	C/UN	100		Details of brake gear for Special Tank Engines	19/04/1872	
173	C/UN	101		Brake screw pillar for Special Tank Engines	19/04/1872	
173	C/UN	102		Leading spring gear for 6' 6" Passenger Engines (LB) with new boilers	04/06/1872	
173	C/UN	103		Wedges and taper grooves for axle rolls	29/07/1872	
173	C/UN	104		Alteration of gibs and cotters for DX connecting rods	17/04/1873	
173	C/UN	105		Details of brake gear for Special Tank Engines	19/04/1872	
173	C/UN	106		Clackbox and injector details for goods and passenger engines	22/04/1873	
173	C/UN	107		Hopper for Six Wheels Coupled Goods Engines (DX)	14/10/1873	
173	C/UN	108		Arrangement of lagging for boiler of 5' 6" Four Wheels Coupled Passenger Engine	23/02/1875	
173	C/UN	109		Clips for injector foot	05/11/1875	
173	C/UN	110		Cast frames for wire gauze in 1500 and 1800 gallon tenders	02/10/1876	
173	C/UN	111		Tender drawspring	03/10/1876	

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
173	C/UN	112		Plan of continuous drawbar for tenders	23/10/1876	
173	C/UN	113		6' Compounded Old Crewe class. Plan, elevations and sections	02/10/1894	L & NWR
173	C/UN	114		Liverpool & Manchester Goods Engines. Plan and elevations	14/09/1849	
173	C/UN	115		Section through cylinder and motion of locomotive engine "Raven"	09/04/1858	
174	C/UN	116		Hooping furnace for Wolverton	09/07/1862	
174	C/UN	117		Pumping arrangements for Potton	29/09/1862	
174	C/UN	118		No 6 Engine House, Camden. Stationary boiler (plan and elevation)	07/11/1862	
171	C/UN	119		No 6 Engine House, Camden Stationary boiler (sections)	07/11/1862	
174	C/UN	120		Foundation for 10" Crewe Water Column	13/07/1863	
174	C/UN	121		Wrought iron details for Nameplate Engraving Machine	27/11/1863	
174	C/UN	122		Wrought iron details for Cogging Machine (Steel Works)	03/12/1863	
174	C/UN	123		Special standard spanners	12/02/1864	
174	C/UN	124		Cast iron shaft, balance weight and washer for Cogging Engine (Steel Works)	04/04/1864	

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
174	C/UN	125		Details of wrought iron work for frameplate of Grinding Machine	15/04/1864	
174	C/UN	126		Details of cast iron work for frameplate of Grinding Machine	14/11/1864	
174	C/UN	127		Details of wrought iron work for frameplate of Grinding Machine	14/11/1864	
174	C/UN	128		Curvilinear Slotting Machine	02/12/1864	
174	C/UN	129		Frameplate Grinding Machine	14/12/1864	
174	C/UN	130		Curvilinear Slotting Machine	04/01/1865	
174	C/UN	131		Details of cast iron work for Frameplate Grinding Machine	19/01/1865	
174	C/UN	132		Roughing out rolls for 14" Train	28/03/1865	
174	C/UN	133		Cast iron details for six ton shearlegs as applied to Ladle Crane (Steel Works)	03/04/1865	
174	C/UN	134		Case hardening furnace for axles	11/05/1865	
174	C/UN	135		30-ton Duplex Steam Hammer. Wrought iron details	14/11/1865	
174	C/UN	136		Roller for steam pipe	29/11/1865	
174	C/UN	137		Alteration to headstock of Blanchard's Lathe	12/12/1865	
174	C/UN	138		Girders for water tanks at Steel Works	16/01/1866	
174	C/UN	139		Friction clip for coupling warehouse machinery to stationary engine at Camden	02/03/1866	
174	C/UN	140		Standards for radial traverser for Steel Works	15/05/1866	

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
174	C/UN	141		Crossbeam for radial traverset for Steel Works	16/05/1866	
174	C/UN	142		Brass bearings for radial traverser	14/06/1866	
174	C/UN	143		Regulating valve for water tank at Preston Junction	05/09/1866	
174	C/UN	144		Broken Bessemer steel crank axles for Testing Machine	24/09/1866	
174	C/UN	145		Lime Street Tunnel. Centre piece for ventilating fan	23/01/1867	
174	C/UN	146		Rolls for 14" Train (no 11)	08/02/1867	
174	C/UN	147		Rolls for 14" Train (no 6)	09/02/1867	
174	C/UN	148		Rolls for 14" Train (no 10)	12/02/1867	
174	C/UN	149		Steam Hammer Furnace	13/02/1867	
174	C/UN	150		Rolls for 14" Train (no 7)	14/02/1867	
174	C/UN	151		Rolls for 14" Train (no 4)	15/02/1867	
174	C/UN	152		Rolls for 14" Train (no 5)	15/02/1867	
174	C/UN	153		Upright boiler for steam hammers	15/02/1867	
174	C/UN	154		Rolls for 14" Train (no 15)	28/02/1867	
174	C/UN	155		Rolls for 14" Train 1 1/8" and 2" anagle iron (no 14)	05/03/1867	
174	C/UN	156		Rolls for 14" Train (no 13)	07/03/1867	
174	C/UN	157		Rolls for 14" Train - bar iron 4" x 1 1/4" (no 3)	08/03/1867	
174	C/UN	158		Rolls for 14" Train 3" x 3" angle iron (no 17)	12/03/1867	

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
174	C/UN	159		Rolls for 14" Train 1" x 1", 1 1/4" x 1 1/4" and 1 3/4" x 1 3/4" angle iron (no 18)	12/03/1867	
174	C/UN	160		Rolls for 14" Train (no 16)	14/03/1867	
174	C/UN	161		Tup for Naylor's Hammer	16/04/1867	
174	C/UN	162		Rolls for handrail iron 14" Train (no 12)	17/06/1867	
174	C/UN	163		Rolls for 14" Train (no 19)	20/07/1867	
174	C/UN	164		Key for centre shaft of ventilating fan for Lime Street Tunne	14/08/1867	
174	C/UN	165		Lifting Shop, Carriage Department, Wolverton. Boiler for warming apparatus	20/11/1867	
174	C/UN	166		Millwrights Shop. Regulating valve for heating apparatus (section)	25/11/1868	
174	C/UN	167		Millwrights Shop. Regulating valve for heating apparatus (plan and elevation)	27/11/1868	
174	C/UN	168		Sand drying apparatus for Camden Steam Shed	04/03/1870	
174	C/UN	169		Hydraulic jack	12/03/1873	
174	C/UN	170		Permanent Way Department drawing no 40.	Not dated	Tools and appliances in general use by the various regular platelaying, relaying, draining and ballast gangs etc

Historical Flat Drawings List

Box No	Prefix	Number	Old Number	Title	Date	Note
174	C/UN	171		Graphs A, B, C and E showing number of engines and engine mileage together with comparisons of mileage and cost between LNWR and other companies 1903-1909	Not dated	
174	C/UN	172		Extract from the Minutes of Proceedings of the Institution of Civil Engineers concerning mechanical coaling plant installed at Crew, 1913		

Lancashire & Carlisle Railway Company Drawings List

Company	Drawing No.	Other Indicator	Title	Earliest Date	Notes
Lancaster & Carlisle Railway Company	1		Plan and sections of Goods Engine	nd	
Lancaster & Carlisle Railway Company	4		no description - incl. brass and copper parts	nd	
Lancaster & Carlisle Railway Company	5		Driving and trailing wheels and axles	nd	
Lancaster & Carlisle Railway Company	6		Leading and tender wheels and axles	nd	
Lancaster & Carlisle Railway Company	8		no description - connecting rod detail	nd	
Lancaster & Carlisle Railway Company	10		Details of reversing gear	nd	
Lancaster & Carlisle Railway Company	12		no description - connecting rod	nd	
Lancaster & Carlisle Railway Company	13		no description - coupling rod	nd	
Lancaster & Carlisle Railway Company	16		Driving and trailing springs	nd	
Lancaster & Carlisle Railway Company	17		no description - multi metal thing	nd	
Lancaster & Carlisle Railway Company	19		Full size spring	nd	
Lancaster & Carlisle Railway Company	20		no description - brake cylinder	nd	
Lancaster & Carlisle Railway Company	21		no description - W iron	nd	
Lancaster & Carlisle Railway Company	23		Engine and tender	nd	Possible source of descriptions
Lancaster & Carlisle Railway Company	24		no description - regulator handle	nd	
Lancaster & Carlisle Railway Company	25		Engine mountings	nd	
Lancaster & Carlisle Railway Company	27		no description - elevation, plan and end views	nd	
Lancaster & Carlisle Railway Company	28		Bracket for holding pump rod guard	nd	
Lancaster & Carlisle Railway Company	32		Driving and trailing balance blocks and stuffing box connections for feed pipes	nd	
Lancaster & Carlisle Railway Company	33		no description - various bits	nd	Artificial number
Lancaster & Carlisle Railway Company	34	UN	no description - details of leaf spring	27 Aug 1859	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
150	NBL	0	Index of drawings for 2-8-0				Wax Linen	Original North British Loco Co listing
150	C	35850	Tender general arrangement	none		43-67	Wax Linen	
150	C	35851	Tender frame and brake gear arrangement	24 Jul 1944	11 Sep 1956	42-524	Wax Linen	
150	C	35852	Pipe arrangement - tender	none	19 Jan 1960	42-936	Oxalid	
150	C	35853	Tender wheel	7 Sep 1943		43-445	Wax linen	
150	C	35854	Wheel and axle	20 Jan 1943	31 Mar 1943	42-691	Wax linen	
150	C	35855	Tender axle box guides end clip	31 Aug 1943	9 Nov 1953	42-596	Wax linen	
150	C	35856	Tender life guard and frame cross stay	31 Aug 1943		42-773	Wax linen	
150	C	35857	Tender foot step	20 Jan 1943	11 Jun 1953	42-783	Wax linen	
150	C	35858	Tank water gauge	21 Dec 1942	2 Feb 1943	42-720	Wax linen	
150	C	35859	Draw hook and spring	29 Jun 1943		42-784	Wax linen	
150	C	35860	Feed well and sieve	22 Oct 1942		42-760	Wax linen	
150	C	35861	Feed cock	31 Aug 1943		42-869	Wax linen	
150	C	35862	Foot steps and ladder	31 Aug 1943		42-931	Wax linen	
150	C	35863	Tank filling hole, lid and sieve	22 Oct 1942	2 Aug 1956	42-777	Wax linen	
150	C	35864	Tender axle box	26 Oct 1942	31 Mar 1943	42-581	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
150	C	35865	Carriage heating details	31 Aug 1943		42-865	Wax linen	
150	C	35866	Tender brake block and hanger	15 Jul 1943		42-605	Wax linen	
150	C	35867	Bunker drain pipe	31 Aug 1943		40-376	Wax linen	
150	C	35868	Case for water gauge and lubricator glasses	31 Aug 1943		42-888	Wax linen	
150	C	35869	Tender spring link and brackets	16 Jan 1943	14 Nov 1958	42-537	Wax linen	
150	C	35870	Handrails and lifting brackets	30 Apr 1943		42-739	Wax linen	
150	C	35871	Axle box sliding top	18 Jan 1943		42-593	Wax linen	
150	C	35872	Feed cock details	30 Oct 1942		42-733	Wax linen	
150	C	35873	Tender buffing block	5 Mar 1943	22 Jun 1944	42-761	Wax linen	
150	C	35874	Driver's platform on tender	19 Oct 1942	18 Apr 1957	42-741	Wax linen	
151	C	35875	Intermediate buffer and guide	23 Mar 1943		24-3639	Wax linen	
151	C	35876	Tender wheel (trailing only)	20 Jan 1943	20 Apr 1959	42-959	Wax linen	
151	C	35877	Brake pull rods and details	31 Aug 1943	17 Jun 1959	42-858	Wax linen	
151	C	35878	Tender bearing spring	25 Sep 1942	21 May 1943	42-531	Wax linen	
151	C	35879	Brake pillar	25 Jan 1943	13 Jun 1957	42-735	Wax linen	
151	C	35880	Brake screw and link	31 Aug 1943		42-748	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
151	C	35881	Brake shaft carriers	31 Aug 1943		42-705	Wax linen	
151	C	35882	Spring compensating beam and carrier	31 Aug 1943	13 Nov 1958	42-864	Wax linen	
151	C	35883	Tender brake hanger bracket	31 Aug 1943		42-731	Wax linen	
151	C	35884	Brake gear details	31 Aug 1943		42-757	Wax linen	
151	C	35885	Tender brake cross beam	31 Aug 1943		42-758	Wax linen	
151	C	35886	Brake adjusting rod	29 Jun 1943		42-800	Wax linen	
151	C	35887	Brake shaft carriers	21 Oct 1942	13 Sep 1956	42-591	Wax linen	
151	C	35888	Tender brake shaft	28 Jan 1943		42-694	Wax linen	
151	C	35889	Boiler arrangement	1 Oct 1942	31 May 1961	42-506	Wax linen	
151	C	35890	Regulator carrier and baffle plate	3 Jun 1943		42-675	Wax linen	
151	C	35891	Main steam pipe	3 Feb 1944		42-673	Wax linen	
151	C	35892	Firebox arrangement	18 Oct 1942	31 May 1961	42-684	Wax linen	
151	C	35893	Drop grate details	25 Nov 1942	7 Apr 1943	42-722	Wax linen	
151	C	35894	Ashpan and drop grate shaft brackets	9 Mar 1944		42-688	Wax linen	
151	C	35895	Firebars	31 Aug 1943		42-475	Wax linen	
151	C	35896	Drop grate and frame	1 Sep 1943		43-300	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
151	C	35897	Firebricks	20 Aug 1943	20 Sep 1950	42-745	Wax linen	
151	C	35898	Ashpan door details	8 Dec 1942	7 Feb 1957	42-699	Wax linen	
151	C	35899	Firebar carriers and brackets	8 Dec 1942		42-686	Wax linen	
152	C	35900	Fire door details	12 Jan 1943	7 Jun 1957	42-696	Wax linen	
152	C	35901	Arrangement of fire door	2 Feb 1943	9 Jun 1958	42-695	Wax linen	
152	C	35902	Boiler steadying bracket	19 Nov 1942		42-594	Wax linen	
152	C	35903	Stay diagram	14 Oct 1942	3 Jul 1943	42-797	Wax linen	
152	C	35904	Roof, transverse and palm stays	31 May 1943	31 May 1961	42-529	Wax linen	
152	C	35905	Blow-off cock and gear	4 Nov 1943	14 Jan 1957	43-257	Wax linen	
152	C	35906	Expansion angle clip	21 Jun 1944	2 Dec 1944	42-588	Wax linen	
152	C	35908	Regulator details	23 Oct 1942	24 Jan 1955	42-598	Wax linen	
152	C	35909	Whistle details	2 Sep 1943	6 Dec 1961	42-863	Wax linen	
152	C	35910	Blow-off cock gear details	18 Apr 1946		43-255	Wax linen	
152	C	35911	Blow-off cock seating	12 Sep 1944		43-256	Wax linen	
152	C	35912	S.J. combination injector type G - right hand	29 Jun 1943		42-716	Wax linen	
152	C	35913	Steam supply stand	13 Oct 1942		42-715	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
152	C	35914	Regulator stuffing box and seating	14 Oct 1942	18 Jan 1944	42-597	Wax linen	
152	C	35915	Blower and tube cleaning valves etc.	7 Dec 1942		42-781	Wax linen	
152	C	35916	Backplate and mountings	21 Dec 1943	28 Aug 1952	42-877	Wax linen	
152	C	35917	Duplex steam sanding valve	13 Sep 1943		42-589?	Wax linen	Also used for other classes
152	C	35918	Injector details	31 Aug 1943		42-854	Wax linen	
152	C	35919	Coal watering cock, pressure gauge cock, etc.	14 Jan 1943	29 Nov 1946	42-866	Wax linen	
152	C	35920	Continuous blowdown details	2 Sep 1943		41-542	Wax linen	
152	C	35921	Injector and carriage heating steam stop valves	5 Feb 1943	5 Aug 1948	42-892	Wax linen	
152	C	35922	Brackets for carriage warming valve and glass gauge lamps	15 Jan 1942	7 May 1954	42-933	Wax linen	
152	C	35923	1 1/2" everlasting blowoff cock	15 Feb 1944		32-306	Wax linen	
152	C	35924	Carriage heating hose and details	21 Jul 1943		40-830	Wax linen	
153	C	35925	Handrails, pillars and sockets	24 Nov 1943		42-779	Wax linen	
153	C	35926	Water gauge with protector	21 Jan 1944	7 Jun 1949	42-134	Wax linen	
153	C	35927	No. 11 right hand monitor injector	29 Mar 1943		42-772	Wax linen	
153	C	35928	6" dial bourbon pressure gauge	4 Oct 1942		42-724	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
153	C	35929	Whistle and valve	11 Apr 1944		39-1610	Wax linen	
153	C	35930	Regulator and valves	5 Jul 1943		42-578	Wax linen	
153	C	35931	Top feed clackbox	18 Feb 1948		42-787	Wax linen	
153	C	35932	Dome	23 Feb 1944		42-498	Wax linen	
153	C	35933	Steam brake stop valve on hose connection tee piece	22 Oct 1943		43-517	Wax linen	
153	C	35934	Pipe carriers and guide for blow-off cock rod	27 Apr 1943		43-289	Wax linen	
153	C	35935	Lubricator carrier and glass gauge reflector	13 Nov 1942		42-949	Wax linen	
153	C	35936	Arrangement of connections between engine and tender	22 Oct 1943		42-952	Wax linen	
153	C	35937	Miscellaneous brackets etc.	21 Oct 1942	16 Dec 1943	42-874	Wax linen	
153	C	35938	Feed connection and vac train pipe carrier	2 May 1944		42-872	Wax linen	
153	C	35939	Carriage warming hose connections	18 Apr 1944		40-829	Wax linen	
153	C	35940	Carriage heating hose pipe connection	15 Apr 1944		42-937?	Wax linen	
153	C	35941	Carriage heating valve adaptor and miscellaneous brake connections	18 Apr 1944		42-951	Wax linen	
153	C	35942	Smokebox arrangement	28 Oct 1943	21 Oct 1958	42-500	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
153	C	35943	Chimney and petticoat	26 Jul 1943		42-533	Wax linen	
153	C	35944	Steam pipes in smokebox	3 Mar 1944		42-540	Wax linen	
153	C	35945	Tube diagram	4 Sep 1942	31 May 1961	42-527	Wax linen	
153	C	35946	Blast pipe	25 Aug 1943		43-129	Wax linen	
153	C	35947	Smokebox door arrangement and details	9 Nov 1943		42-677	Wax linen	
153	C	35948	Superheater header	22 Oct 1943		42-851	Wax linen	
153	C	35949	Locking bar	13 Nov 1943		42-602	Wax linen	
154	C	35950	Superheater elements and details	15 Sep 1943	17 Nov 1955	42-853	Wax linen	
154	C	35951	Steam pipe casing on smokebox	24 Nov 1943		42-740	Wax linen	
154	C	35952	Cab arrangement	28 Sep 1943	26 Jun 1958	42-526	Wax linen	2 copies
154	C	35953	Cab seat	27 Apr 1944		42-538	Ozalid	
154	C	35954	Wood platform and fall plate	7 Sep 1943	8 Mar 1956	42-867	Wax linen	
154	C	35955	Rubbing block (engine)	26 Oct 1943	24 Jun 1944	42-742	Wax linen	
154	C	35956	Cab handrail	7 Sep 1949		42-727	Wax linen	
154	C	35957	Drawpin castings	22 Oct 1943		42-608	Wax linen	
154	C	35958	Cab window (front)	29 Jun 1943	21 Jan 1951	42-600	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
154	C	35959	Anti-glare sheets and details	2 Oct 1943		42-601	Wax linen	
154	C	35960	Pipe arrangement	none	18 Aug 1958	42-935	Wax linen	
154	C	35961	Arrangement of vacuum brake pipes and fittings	3 Jun 1948		42-723	Wax linen	
154	C	35862	Diagrammatic arrangement of vacuum brake ejector and brake valve gear	4 Apr 1944		42-693	Wax linen	
154	C	35963	Control reservoir, vacuum gauge etc.	21 Jan 1944		42-728	Wax linen	
154	C	35964	Westinghouse brake end cock and hose	13 Apr 1944		41-584	Wax linen	
154	C	35965	Miscellaneous brake connections	18 Apr 1944	4 Mar 1951	42-793	Wax linen	
154	C	35966	12" diameter steam brake cylinder	12 Oct 1943		42-701	Wax linen	
154	C	35967	Vacuum brake details	3 Apr 1944	15 May 1958	42-709	Wax linen	
154	C	35968	Brake hanger carrier bracket & release spring details	25 Feb 1944	1 Jul 1947	42-542	Wax linen	
154	C	35969	Intermediate brake pull rods	7 Apr 1944		42-680	Wax linen	
154	C	35970	Front brake pull rod	4 Sep 1943		42-682	Wax linen	
154	C	35971	Brake shaft	2 Sep 1943		42-518	Wax linen	
154	C	35972	Brake hanger and block (engine)	16 Jul 1943	7 May 1952	42-509	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
154	C	35973	Brake cross beam	13 Apr 1944		42-674	Wax linen	
154	C	35974	Anti vacuum valve (4 1/2")	Oct 1943	20 Nov 1943	42-852	Wax linen	
155	C	35975	Westinghouse brake main reservoirs	17 Apr 1944		42-721	Wax linen	
155	C	35976	Hind driving sandbox and piping	11 Apr 1944		42-861	Wax linen	
155	C	35977	Leading sandbox and pipe	9 Mar 1944	3 Oct 1956	42-765	Wax linen	
155	C	35978	Front driving sandbox	9 Mar 1944	3 Oct 1956	42-791	Wax linen	
155	C	35979	Sand pipe stays and miscellaneous brackets	13 Apr 1944		42-850	Wax linen	
155	C	35980	Frame brake and spring gear arrangement	none	10 Jul 1957	42-159	Wax linen	
155	C	35980	Cover pipe over truck centre and alterations to frame stretchers	2 May 1943		42-159	Wax linen	Part copy - for 10 engines only
155	C	35981	Anti-vacuum valve liners	12 Apr 1944		42-862	Wax linen	
155	C	35982	Hind pull rod and bridle	7 Apr 1944	5 Jul 1961	42-607	Wax linen	
155	C	35983	Armstrong oiler for tender axlebox	25 Aug 1943		42-895	Wax linen	
155	C	35984	British Deyroit no 32a four feed locomotive lubricator	4 Feb 1944		27-389	Wax linen	
155	C	35985	General arrangement	none		42-993	Ozalid	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
155	C	35986	Motion arrangement	19 Oct 1943		42-717	Wax linen	
155	C	35987	Crosshead	25 Aug 1943	28 Nov 1947	42-516	Wax linen	
155	C	35988	Eccentric crank	8 Oct 1943		42-703	Wax linen	
155	C	35989	Valve rod and eccentric rod etc.	2 Oct 1943		42-753	Wax linen	
155	C	35990	Motion details	27 Sep 1943		42-603	Wax linen	
155	C	35995	Cylinders 19" diameter 28" stroke	24 Aug 1943?		42-508	Wax linen	
155	C	35996	Hind steam cover and valve spindle guide	2 Oct 1942	11 Dec 1946	42-689	Wax linen	
155	C	35998	Slidebars	16 Jun 1955		42-543	Wax linen	Also WD 2-10-0
156	C	35999	10" piston valve and valve spindle	7 Sep 1943	17 Sep 1958	39-1634	Wax linen	
156	C	36000	Hind cylinder cover	25 Aug 1943	11 Dec 1956	42-521	Wax linen	
156	C	36001	Front cover	27 Jul 1943	11 Dec 1956	42-491	Wax linen	
156	C	36002	Piston head and rod	none	7 Nov 1962	42-514	Wax linen	2 copies, 1 ozalid
156	C	36003	Cylinder relief valve	12 Apr 1944		39-1657	Wax linen	
156	C	36004	Cylinder clothing and casings	22 Nov 1943		42-536	Wax linen	
156	C	36005	Cylinder cock gear details (sheet 1)	6 Apr 1944	1 Jul 1957	42-746	Wax linen	
156	C	36006	Cylinder cock gear details (sheet 2)	7 Apr 1944		42-893	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
156	C	36007	Cylinder cock shaft brackets	29 Feb 1944		42-764	Wax linen	
156	C	36008	Crank pins	24 Feb 1944		39-1579	Wax linen	
156	C	36009	Driving wheels (without hub liners)	4 Mar 1943		43-168	Wax linen	
156	C	36010	Leading, intermediate and trailing wheels	10 Sep 1942	31 Mar 1943	42-515	Wax linen	
156	C	36011	Coupled axles	none	8 Mar 1943	42-532	Wax linen	
156	C	36012	Coupled axlebox guides	11 Oct 1943		42-487	Wax linen	
156	C	36013	Frame clip	2 Aug 1942	30 Mar 1943	42-154	Wax linen	2 copies, 1 ozalid
156	C	36014	Coupled axlebox oiling bracket	14 Sep 1943	18 Jun 1957	42-541	Wax linen	
156	C	36015	Axlebox protection plate (driving)	31 Aug 1943	16 Jun 1955	43-101	Wax linen	
156	C	36016	Coupled axlebox	23 Nov 1942	19 Apr 1956	42-156	Wax linen	
156	C	36017	Engine truck arrangement	8 Nov 1943	5 Nov 1956	42-520	Wax linen	
156	C	36018	Engine truck wheels	13 Oct 1943		42-685	Wax linen	
156	C	36019	Engine truck centre	23 Nov 1943		43-357	Wax linen	
156	C	36020	Engine truck axle	12 Oct 1943		42-539	Wax linen	
156	C	36021	Engine truck axlebox	none	24 Apr 1943	42-606	Wax linen	
156	C	36022	Engine truck frame	8 Aug 1943	17 Sep 1958	42-792	Ozalid	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
156	C	36023	Engine truck spring link, spring link bracket, swing link and details	2 Sep 1943	17 Jan 1957	42-786	Wax linen	
156	C	36024	Radial arm bracket pin	26 Oct 1943		42-676	Wax linen	
157	C	36025	Engine truck axlebox guides and swing link details	27 Nov 1942	24 Apr 1943	42-534	Wax linen	
157	C	36026	Engine truck axlebox dust shield	21 Jan 1944		42-930	Wax linen	
157	C	36027	Engine truck cradle and details	8 Nov 1943		42-522	Wax linen	
157	C	36028	Smokebox saddle	14 Sep 1942	8 Jan 1943	42-493	Wax linen	
157	C	36029	Oil boxes and connections	9 Nov 1942	10 Jan 1958	42-604	Wax linen	
157	C	36030	Lubricator pump, steam cocks etc.	20 Nov 1942	22 Jul 1957	42-519	Wax linen	
157	C	36031	Motion oil boxes	12 Nov 1942	28 Nov 1947	42-868	Wax linen	
157	C	36032	Reversing rod	3 Nov 1942		42-743	Wax linen	
157	C	36033	Reversing link	15 Oct 1942		42-710	Wax linen	
157	C	36034	Bearing spring for pony truck	2 Oct 1942	25 Jan 1943	42-512	Wax linen	
157	C	36035	Bearing spring coupled wheels	24 Aug 1942		42-488	Wax linen	
157	C	36036	Spring links and brackets	24 Sep 1942	14 Nov 1958	42-155	Wax linen	
157	C	36037	Reversing shaft	15 Nov 1942	1 Feb 1943	42-711	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
157	C	36038	Reversing screw bracket	28 Sep 1943	18 Aug 1958	42-775	Wax linen	
157	C	36039	Reversing screw and details	21 Dec 1942	18 Aug 1958	42-845	Wax linen	
157	C	36040	Reversing shaft carrier and reversing link carrier	20 Oct 1942	13 Mar 1950	42-734	Wax linen	
157	C	36041	Reversing screw bracket carrier	2 Dec 1942	3 Feb 1943	42-785	Wax linen	
157	C	36043	Front footstep, stay and handrail	2 Sep 1943		42-725	Wax linen	
157	C	36044	Engine tools	7 Sep 1943		40-288	Wax linen	
157	C	36047	Spanners	31 Aug 1943		42-937	Wax linen	
157	C	36048	Driver's torch lamp	2 Sep 1943		40-581	Wax linen	
157	C	36049	Oil cans and feeders	12 Mar 1943		40-583	Wax linen	
158	C	36050	Steam brake cylinder	19 Dec 1942		42-875	Wax linen	
158	C	36051	Modification to pipe arrangement	22 Jan 1944		43-279	Wax linen	
158	C	36051	Part copy - modification to pipe arrangement	23 Jun 1943	27 Nov 1951	43-279	Ozalid	
158	C	36052	Carrier for steam brake hose connection	22 Feb 1944	17 Sep 1956	43-949	Wax linen	
158	C	36054	Brick arch	27 Oct 1943	7 Jul 1960	42-744	Wax linen	
158	C	36055	Standard engine spanners	31 Aug 1943		40-286	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
158	C	36056	Motion pins	2 Sep 1943		42-780	Wax linen	
158	C	36057	Lubricator for steam brake etc.	23 Jun 1944		40-250	Ozalid	
158	C	36058	Cylinder and steam chest drain valves	4 Oct 1943	26 Oct 1962	39-1603	Wax linen	
158	C	36059	Boiler seatings	22 Jan 1944	5 May 1948	42-589	Wax linen	
158	C	36060	Footsteps, ladder and handrail arrangement	11 Jul 1944		43-851	Wax linen	
158	C	36063	Combined lubricator bracket and tender steam brake isolating cock	6 Dec 1943		43-942	Wax linen	
158	C	36064	Miscellaneous pipe clips and carriers	9 Dec 1942	18 Aug 1958	42-940	Wax linen	2 copies - 1 later
158	C	36107	Tube plate diagrams, copper welding	7 Mar 1944		none	Wax linen	
158	C	36263	Platform supports	5 Nov 1942	15 Aug 1958	42-776	Wax linen	
158	C	36264	Platform supports and gussets	5 Nov 1942	18 Aug 1944	42-767	Wax linen	
158	C	36274	Painting diagram and arrangement of numbering and lettering	2 Mar 1943	27 Dec 1943	42-1018	Wax linen	
158	C	36275	Packing for regulator gland	none		44-706	Wax linen	
158	C	36276	Front drag box (tender)	5 Dec 1942	15 Nov 1956	42-857	Wax linen	
158	C	36277	Hind drag box (engine)	15 Oct 1942	15 Nov 1956	42-580	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
159	C	37100	Fire iron carrier	19 Oct 1942		42-747	Wax linen	
159	C	37101	Corks for coupled axlebox keeps and truck	11 Sep 1943		33-1211a	Wax linen	
159	C	37102	Continuous blowdown and steam brake pipe details	24 Nov 1943	19 Jan 1960	42-876	Wax linen	
159	C	37103	Ejector carrier	13 Nov 1942		42-943	Wax linen	
159	C	37104	Brake gauge carrier	6 Nov 1942		42-938	Wax linen	
159	C	37105	Lubricator drip cup and carrier etc.	none		43-131	Wax linen	
159	C	37107	Steam manifold carrier and pipe clips (oil fuel)	none		42-1002	Wax linen	
159	C	37108	Hind drag box	27 Mar 1946		42-762	Wax linen	
159	C	37109	Ejector steam valve and miscellaneous pipe connections	24 Jun 1943		40-261	Wax linen	
159	C	37110	Tyre profiles	15 Mar 1943		43-171	Wax linen	
159	C	37111	Westinghouse brake pump carrier	19 Mar 1943		43-194	Wax linen	
159	C	37112	Carriers and clips (continuous blowdown)	31 Oct 1942		42-890	Wax linen	
159	C	37113	Dummy coupling, elbow and hose coupling for vacuum brake	none		41-111	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
159	C	37114	Bunker access and toolbox door details	19 Jan 1943	16 Mar 1959	42-887	Wax linen	
159	C	37115	Vacuum brake pipes (tender)	31 Aug 1943		42-754	Wax linen	
159	C	37116	Caulking tools	2 May 1944		43-303	Wax linen	
159	C	37117	Vacuum brake hose pipes etc.	none		41-88	Wax linen	
159	C	37118	Arrangement of bunker access door and toolboxes	19 Jan 1943	8 Dec 1958	42-768	Wax linen	
159	C	37119	Brake releasing spring	none		40-205	Ozalid	
159	C	37120	Cap for vent pipe on tank	31 Sep 1943		39-1703	Wax linen	
159	C	37121	Tank packing	17 Nov 1942		42-939	Wax linen	
159	C	37122	Screen for standard head-lamp	none		40-580	Wax linen	
159	C	37123	Vent pipe for tank	31 Aug 1943		40-245	Wax linen	
159	C	37124	Westinghouse brake details	21 Jul 1943		40-572	Wax linen	
160	C	37125	Tank and bunker arrangement - 5000 gallon	24 Jul 1944	8 Mar 1956	42-525	Wax linen	
160	C	37126	Siphon corks with cane centres	11 Sep 1943		42-860	Wax linen	
160	C	37127	Axlebox oil pad (coupled)	21 Jan 1944		42-730	Wax linen	
160	C	37128	Side elevation	none		none	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
160	C	37129	Roof supporting tee and driver's arm rest	4 Oct 1942		42-592	Wax linen	
160	C	37130	Diameters and side clearances for motion details	24 Jan 1945		45-6	Wax linen	
160	C	37131	Diameters and clearances for spring gear	24 Jan 1945		45-4	Wax linen	
160	C	37132	Oil cup covers	10 Oct 1944		42-798	Wax linen	
160	C	37133	Truck axlebox oil pad	7 Sep 1943		39-1730	Wax linen	
160	C	37134	Taper pins - split and solid steel	9 Jan 1948		40-48	Wax linen	
160	C	37135	Standard worsted trimmings	7 Sep 1943		42-880	Wax linen	
160	C	37136	Spring gear and coupling rod bushes	15 Nov 1942		42-1004	Wax linen	
160	C	37137	Coupled axlebox dust shield	3 Aug 1943		42-891	Wax linen	
160	C	37138	Diameters and side clearances for motion details	10 Jan 1945		45-5	Wax linen	
160	C	37139	Sandbox details	7 Sep 1943		39-1743	Wax linen	
160	C	37140	Front steam chest cover	21 Jul 1943	11 Dec 1956	39-1616	Wax linen	
160	C	37141	Screw coupling	2 Sep 1943		42-769	Wax linen	
160	C	37142	Westinghouse brake details	14 Sep 1943		40-576	Wax linen	
160	C	37143	Brake pump and reservoir carriers	23 Mar 1943	26 May 1943	42-595	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
160	C	37144	Brake hanger and block	10 Dec 1947		43-899	Wax linen	
160	C	37145	Carrier for steam brake valve	12 Nov 1942		42-947	Wax linen	
160	C	37146	Diameters and side clearances for brake gear	24 Jan 1945		45-7	Wax linen	
160	C	37147	Rotary steam valve for carriage warming apparatus	2 Sep 1943		42-848	Wax linen	
160	C	37148	Buffers (Turplat Noweld)	2 Sep 1943		42-755	Wax linen	
160	C	37149	Filling up plates on cab front	28 Apr 1943		43-293	Wax linen	
161	C	37150	Cab wing plate stiffening bracket	18 Jan 1943		42-726	Wax linen	
161	C	37151	Steam-driven air compressor	29 Jun 1943		42-269	Wax linen	
161	C	37152	Intermediate drawbar and safety links	31 Aug 1943		42-719	Wax linen	
161	C	37153	Westinghouse brake details	7 Sep 1943		40-663	Wax linen	
161	C	37154	Sanding tee piece	5 Oct 1942	14 Apr 1943	40-269	Wax linen	
161	C	37155	Sanding steam cock	7 Sep 1943	2 Mar 1951	39-1750	Wax linen	
161	C	37156	Scrapping sizes and fitting of tyres to pony truck and tender whels	30 Oct 1947	20 Dec 1951	T-622	Wax linen	
161	C	37157	Piston valve liner	2 Sep 1943		42-496	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
161	C	37158	Westinghouse brake pump carrier	19 Mar 1943		43-193	Wax linen	
161	C	37159	Sandshield	23 Oct 1942		42-789	Wax linen	
161	C	37160	Brake gear bushes	15 Dec 1942		42-1003	Wax linen	
161	C	37163	Steam sanding ejector and sand trap	31 Aug 1943		42-67	Wax linen	
161	C	37164	Miscellaneous carriage heatings detail etc.	25 Jan 1943	2 Jun 1943	40-739	Wax linen	
161	C	37165	Cab window (front)	10 May 1944	21 Jan 1957	44-584	Wax linen	
161	C	37166	Three-way branch and details for flexible steam pipe conections	11 Nov 1943	19 Jan 1960	40-290	Wax linen	
161	C	37167	Mark IV automatic steam brake valve	13 Jun 1947		1697-D	Wax linen	
161	C	37168	Westinghouse brake valve bracket	none		42-942	Wax linen	
161	C	37169	Group standard draw gear	23 Apr 1946	8 Jun 1956	D-44	Wax linen	
161	C	37170	Modification to tender brake hanger to suit LNER standard brake block	1 May 1947	26 Nov 1954	Z-253	Wax linen	
161	C	37171	Group standard screw coupling	17 Aug 1948		D-11646-D	Wax linen	
161	C	37172	Drain on blower pipe	9 Jan 1947		W748	Wax linen	
161	C	37173	Group standard coal slacking cock	16 Sep 1936		W-542	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
162	C	37174	Firebox back gusset stay	7 Dec 1942	31 May 1961	42-774	Wax linen	
162	C	37175	Firebox protection plate	2 Sep 1943		D32-12410	Wax linen	
162	C	37176	Blank flange for vacuum cylinder, graduable steam brake valve mark IV	none		16965-D	Wax linen	
162	C	37177	Alteration to anti-vacuum valve	22 Dec 1947		47-30	Wax linen	
162	C	37178	Arrangement of clothing mattresses, fibre glass	4 Oct 1947		G-187	Wax linen	
162	C	37179	4 1/2" anti vacuum valve	17 Dec 1947	12 Nov 1956	W-762	Wax linen	
162	C	37180	Firebox tubeplate (copper)	31 Oct 1947		N-1203	Wax linen	
162	C	37181	(No title) coupling nuts	8 Oct 1947		36-241	Wax linen	
162	C	37182	Draw bar plates	18 Dec 1948		Y-888	Wax linen	
162	C	37183	Clothing mattresses, fibre glass	19 Sep 1947		G-186	Wax linen	
162	C	37184	Cab door details, eyebolt and door hook	14 Jun 1940		C-169-3	Wax linen	
162	C	37185	Handhole cover and bridge	none		609-1N	Wax linen	
162	C	37186	Cab door details, door fastener and stop	27 Sep 1940		C-169-1	Wax linen	
162	C	37187	Cab door details, hinge and door catch	23 Nov ????		C-169-3	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
162	C	37188	Hinge bracket	16 Mar 1949		C-169-6	Wax linen	
162	C	37189	S'box and f'box mouldings	28 Oct 1947		42-871	Wax linen	
162	C	37190	Group standard draw hook	18 Aug 1948	3 Jul 1957	D-4	Wax linen	
162	C	37191	Standard brake bliock pin and washer	13 Nov 1946		Y-11019-D	Wax linen	
162	C	37192	Leading coupling rod	26 Sep 1947	24 Jul 1958	S-424	Wax linen	
162	C	37193	Washout door plugs and fusible plugs	17 Sep 1943		42-799	Wax linen	
162	C	37194	Crosshead oil box	28 Nov 1947		H-5-169	Wax linen	
162	C	37195	Trailing coupling rod	24 Dec 1947	24 Jul 1958	S-425	Wax linen	
162	C	37196	Connecting rod	24 Dec 1947		S-429	Wax linen	
162	C	37197	Temporary modification to combined vacuum & compressed air operated steam valve	none		12533	Wax linen	Traced from Gresham and Craven's print
162	C	37198	Intermediate coupling rod	24 Dec 1947		S-430	Wax linen	
162	C	37199	Standard fusible plug - SR type	26 Feb 1935		none	Wax linen	
163	C	37200	Foundation ring	16 Oct 1942		42-590	Wax linen	
163	C	37201	Pop safety valve	12 Oct 1942	2 Jan 1953	40-285	Wax linen	
163	C	37202	Elbow for steam stand	24 Apr 1946		42-504	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
163	C	37203	Gusset stays (smokebox tube plate)	7 Sep 1942	31 May 1961	42-587	Wax linen	
163	C	37204	Expansion angle	24 Nov 1948		42-697	Wax linen	
163	C	37205	Boiler joints and sections	4 May 1943		42-759	Wax linen	
163	C	37206	Standard washout plug	28 May 1935		N-833N	Wax linen	
163	C	37207	Shield for fire hole	13 Oct 1943		42-712	Wax linen	
163	C	37208	Throat plate joint	21 Sep 1942		42-736	Wax linen	
163	C	37209	Flanging blocks	none		42-490	Wax linen	
163	C	37210	Packing for regulator gland	2 Sep 1943		40-287	Wax linen	
163	C	37211	Firehole baffle plate	2 Sep 1943		42-713	Wax linen	
163	C	37212	Steam pressure gauge	none		W-639	Wax linen	
163	C	37213	Drop grate and frame	29 Apr 1943		42-690	Wax linen	
163	C	37214	Continuous blow-down valve	7 Sep 1943		41-529	Wax linen	
163	C	37215	Headlamp brackets and screw coupling hook	20 Feb 1943		42-870	Wax linen	
163	C	37216	Clothing back plate	21 Dec 1942	12 Sep 1952	42-929	Wax linen	
163	C	37217	Millboard for firebox backplate	14 Feb 1946		42-846	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
163	C	37218	Pipe carriers and clips	8 Jan 1943	1 Mar 1943	42-956	Wax linen	
163	C	37219	Miscellaneous pipe carriers	25 May 1943		42-945	Wax linen	
163	C	37220	Injector carriers and stools	30 Oct 1942		42-855	Wax linen	
163	C	37221	Engine truck arrangement	19 May 1943		43-272	Wax linen	For 10 engines only - 7188-7197
163	C	37222	Dome casing	6 Feb 1948		42-678	Wax linen	
163	C	37223	Spring link bracket (tender and engine truck)	6 Mar 1944	17 Jan 1957	43-834	Wax linen	
163	C	37224	Casing for injector delivery pipe	none		43-344	Wax linen	
164	C	37225	Clothing arrangement	24 Dec 1942	23 Oct 1943	42-796	Wax linen	
164	C	37226	Firebox clothing details	6 Jan 1943		42-883	Wax linen	
164	C	37228	Safety valve casing	9 Sep 1942		42-679	Wax linen	
164	C	37229	Expansion angle casing and reversing shaft pocket	5 Nov 1942		42-788	Wax linen	
164	C	37230	Miscellaneous brackets etc.	23 Jun 1943	28 Jun 1960	43-358	Wax linen	
164	C	37231	Washout plug casings	none	16 Apr 1951	42-873	Wax linen	
164	C	37232	Oil box carrier and pipe clips	6 Dec 1942	26 Mar 1943	42-934	Wax linen	
164	C	37233	Boiler clothing details	19 Oct 1942		42-882	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
164	C	37235	Pipe clips and carriers	none		42-932	Wax linen	
164	C	37236	Feed hose connection	4 Apr 1944		39-1647	Wax linen	
164	C	37237	Slide bar bracket and motion girder	5 Apr 1944	28 Jun 1960	42-681	Wax linen	
164	C	37238	Reservoir carriers and pipe clips	30 Nov 1942		42-946	Wax linen	
164	C	37239	Miscellaneous flanges and connections	23 Nov 1942	14 Jan 1943	42-884	Wax linen	
164	C	37240	Truck swing links and details	30 Apr 1943		43-282	Wax linen	
164	C	37241	Roof ventilator and wind doors	none	30 Apr 1951	C-534	Wax linen	2 copies
164	C	37242	No 910 and 911 monitor injector	24 Oct 1940	18 Jul 1944	9551	Wax linen	Also LNER classes K1 and L1
164	C	37243	Engine truck centre, cradle and details	3 May 1943		43-287	Wax linen	
164	C	37244	Armstrong oiler to suit coupled axlebox with 8 1/2" diameter journal	4 Jan 1945		45-1	Wax linen	
164	C	37245	Armstrong oiler to suit pony truck axlebox with 6 1/4" diameter journal	4 Jan 1945		45-2	Wax linen	
164	C	37246	Armstrong oiler to suit tender axlebox with 11 x 5 1/2" diameter journal	4 Jan 1945		45-3	Wax linen	
164	C	37247	Locking plate for steam brake union	23 Oct 1944		44-26	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
164	C	37248	Profiles of coupled wheel tyres	21 Nov 1947		T626	Wax linen	
164	C	37249	Alterations to tank filling hole lid	21 May 1948		Z264	Wax linen	
165	C	37588	Smokebox and firebox tube plates	16 May 1950	21 Mar 1960	N-1237	Wax linen	
165	C	37589	Tee bars for longitudinal stays	3 May 1950	21 Mar 1960	N-1232	Wax linen	
165	C	37590	Safety valve and top feed seatings	22 Jun 1950		N-1249	Wax linen	
165	C	37591	Seating blocks on back plate	Jun 1950		N-1245	Wax linen	
165	C	37592	Roof stay and diagram of lengths	11 Jul 1950	3 Jul 1952	N-1258	Wax linen	
165	C	37593	Transverse stay details	10 Jul 1950	27 Feb 1952	N-1256	Wax linen	
165	C	37594	Longitudinal stay, pin and washer	27 Jun 1950	21 Mar 1960	N-1257	Wax linen	
165	C	37595	Expansion stay and sling link details	27 Jun 1950		N-1250	Wax linen	
165	C	37596	Palm stay	28 Apr 1950		N-609-155	Wax linen	
165	C	37597	Arrangement of transverse stays and inspection doors	8 Jun 1950	21 Jun 1960	N-1244	Wax linen	
165	C	37598	Arrangement of expansion and sling stays	2 May 1950	21 Jun 1960	N-1231	Wax linen	
165	C	37599	Stay diagram	30 May 1950		37-601	Wax linen	
165	C	37601	Mudhole door	5 Jul 1950		N-1254	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
165	C	37602	Details of inspection door and cover	Feb 1934		N-748	Wax linen	
165	C	37603	Internal pipe arrangement	8 Aug 1950	28 Aug 1951	N-1262	Wax linen	
165	C	37604	Internal pipe details	10 Aug 1950		N-1263	Wax linen	
165	C	37638	Standard India rubber gauge glass cone	8 Jun 1938		W-418-1	Wax linen	
165	C	37639	Gauge glasses for all classes of engines	21 Jan 1944	18 Jan 1952	44-4	Wax linen	
165	C	37640	Water gauge protector glasses. Armour plated	19 Jul 1939		W-601	Wax linen	
165	C	37641	Spring for gauge glass protector (C37643)	none		16568B-C	Wax linen	
165	C	37642	Back plate for water gauge glass protector	none		16568A-C	Wax linen	
165	C	37643	Water gauge glass protector Gauge for water gauge glass protector Water gauge glass protector	none		16568-C	Wax linen	
165	C	37669	Proposed fitting of BR Standard water gauge	7 Mar 1951		51-10	Wax linen	cancelled
165	C	37670	Tee bar for longitudinal stays	19 Apr 1951	14 Jan 1952	N-1275	Wax linen	

War Department 2-8-0 Drawings List

Box Number	Prefix	Number	Title	Earliest Date	Latest Date	Old Number	Material	Notes
165	C	0	Profile of 2-8-0 engine showing extreme throwovers on a 6-chain curve	none		42-885	Paper	Truck side play 7in total
165	C	0	Half profile of 2-10-0 engine showing extreme throwovers on a 4 1/2 inch and 6 chain curves with 3/4 inch gauge widening	none		43-453	Paper	Truck side play: 4 1/2 chain curve 10in total, and 6 chain curve 8in total

William Beardmore Drawings List

Box Number	Drawing Number	Suffix	Title	Earliest Date	Latest Date	Material	Notes
166	1630	A	Dome barrel plate and fittings	1 Jun 1920		wax linen	
166	1629	Y	Crank pins	4 Aug 1920		wax linen	traced from Crewe print 16232
166	1628	T	Piston rod and nut	18 Jun 1920		wax linen	traced from Crewe print 20413
166	1627	U	Crosshead pins	27 Aug 1920		wax linen	traced from Crewe print 20411
166	1626	RR	Radial axle truck	23 Jun 1920		wax linen	
166	1625	BB	Axle inter and trailing	10 Jun 1920		wax linen	traced from Crewe print 16232
166	1623	BB	Driving axle bearing	10 Jun 1920		wax linen	traced from Crewe print 16232
166	1608	AA	Intermediate wheel centre, tyre and inserted balance weights	10 Jun 1920		wax linen	traced from Crewe print 20330
166	1607	AA	Driving wheel centre, tyre and inserted balance weights	10 Jun 1920		wax linen	traced from Crewe print 20330
166	1606	RR	Bogie wheel and tyre	24 Jun 1920		wax linen	traced from Crewe print 12677
166	1605	HH	Trailing hornblock	16 Aug 1920		wax linen	
166	1604	HH	Intermediate hornblock	17 Aug 1920		wax linen	
166	1598	K	Packing plates for smokebox	20 Aug 1920		wax linen	traced from Crewe print 18582
166	1592	X	Oil cup for coupling rod	24 Sep 1920		wax linen	traced from Crewe print 17152
166	1590	X	Coupling rod details	28 May 1920		wax linen	traced from Crewe print 16278
166	1589	LL	Brake block and end blocks for brake beams	19 Apr 1920		wax linen	traced from Crewe print 18893

William Beardmore Drawings List

Box Number	Drawing Number	Suffix	Title	Earliest Date	Latest Date	Material	Notes
166	1585	LL	Brake lever	3 May 1920		wax linen	traced from Crewe print 18893
166	1567	FF	Footplate carrying bracket at leading end	18 Aug 1920		wax linen	
166	1564	FF	Footplate carrying bracket - inter and trailing	19 Aug 1920		wax linen	
166	1563	U	Crosshead - right hand	10 May 1920		wax linen	traced from Crewe print 20210
166	1561	HH	Driving hornblocks	17 Aug 1920		wax linen	traced from Crewe print 17577
166	1560	FF	Cross-stay in front of fire box	20 Apr 1920		wax linen	traced from Crewe print 16243
167	1892	K	Chimney top, base, petticoat, etc.	8 Jul 1920		wax linen	traced from Crewe prints 15658 and 18861
167	1889	K	Smokebox door hand wheel and dart handle	28 Jun 1921		wax linen	
167	1887	K	Smokebox door handle and door clip	29 Jun 1921		wax linen	
167	1881	K	Head lamp bracket	12 Aug 1920		wax linen	traced from Crewe print 20850
167	1880	FF	Corner casting for splasher	17 Aug 1920		wax linen	
167	1879	D	Main steam pipe flange, cone and steam pipe connecting piece	28 Jul 1920		wax linen	traced from Crewe print 18156
167	1873	K	Smokebox door bracket	27 Jun 1921		wax linen	
167	1871	FF	Motion bracket	24 Aug 1920		wax linen	
167	1859	J	Damper door hinges	21 Sep 1920		wax linen	1859-64 on same sheet

William Beardmore Drawings List

Box Number	Drawing Number	Suffix	Title	Earliest Date	Latest Date	Material	Notes
167	1860	J	Damper shaft	21 Sep 1920		wax linen	1859-64 on same sheet
167	1861	J	Brackets on damper door	21 Sep 1920		wax linen	1859-64 on same sheet
167	1862	J	Sector for front damper rod	21 Sep 1920		wax linen	1859-64 on same sheet
167	1863	J	Wedge for damper rod	21 Sep 1920		wax linen	1859-64 on same sheet
167	1864	J	Sector for hind damper rod	21 Sep 1920		wax linen	1859-64 on same sheet
167	1851	K	Smokebox door	4 Aug 1920		wax linen	traced from Crewe print 15819
167	1849	FF	Handle and catch for door plate under front plate, smokebox	28 Jun 1921		wax linen	
167	1844	TB	Details for water pickup gear	9 Sep 1920		wax linen	1844 and 1845 on same sheet, from Crewe print 17530
167	1845	TB	Details for water pickup gear	9 Sep 1920		wax linen	1844 and 1845 on same sheet, from Crewe print 17539
167	1831	R	Cover plates and joint clips (front and hind cylinder covers)	19 May 1920		wax linen	traced from Crewe print 20405
167	1828	R	Steam chest covers	13 Aug 1920		wax linen	traced from Crewe print 18125
167	1821	S	Piston valve spindle and crosshead	9 Sep 1920		wax linen	traced from Crewe print 20185
167	1781	P	Clothing details	none		wax linen	
167	1776	T	Piston rod cotter	3 Sep 1920		wax linen	1776 and 1777 on same sheet, from Crewe print 20411
167	1777	U	Gudgeon pin key	3 Sep 1920		wax linen	1776 and 1777 on same sheet, from Crewe print 20411
167	1773	LL	Brake beams for wheels	2 Sep 1920		wax linen	1773, 1773-E and 1773-F on same sheet, from Crewe print 19875

William Beardmore Drawings List

Box Number	Drawing Number	Suffix	Title	Earliest Date	Latest Date	Material	Notes
167	1773	E - LL	Leading brake pull rod	2 Sep 1920		wax linen	1773, 1773-E and 1773-F on same sheet, from Crewe print 19875
167	1773	F - LL	Intermediate brake pull rod	2 Sep 1920		wax linen	1773, 1773-E and 1773-F on same sheet, from Crewe print 19875
167	1772	G	Arrangement and details of fire door	9 Sep 1920		wax linen	
167	1764	A,L,M,N - LL	Middle beam lever	2 Sep 1920		wax linen	all 1764 drawings on same sheet, from Crewe print 19875
167	1764	C,D - LL	Trailing pull rod lever	2 Sep 1920		wax linen	all 1764 drawings on same sheet, from Crewe print 19875
167	1764	P,E,O - LL	Lever for trailing beam	2 Sep 1920		wax linen	all 1764 drawings on same sheet, from Crewe print 19875
167	1764	K,F - LL	Brake pull rod adjusting screw	2 Sep 1920		wax linen	all 1764 drawings on same sheet, from Crewe print 19875
167	1764	G,I,J - LL	Driving and trailing brake hanger top pin	2 Sep 1920		wax linen	all 1764 drawings on same sheet, from Crewe print 19875
167	1763	RR	Bogie compensating beam and fittings	5 Oct 1920		wax linen	
167	1759	D	Steam pipe in smokebox	26 Oct 1920		wax linen	
167	1754	G	Firebox frame and details	9 Sep 1920		wax linen	
167	1751	A - J	Casting for ashpan	20 Sep 1920		wax linen	all 1751 drawings on same sheet
167	1751	C - J	Guide for damper rod	20 Sep 1920		wax linen	all 1751 drawings on same sheet
167	1751	D - J	Damper rod hinge bracket	20 Sep 1920		wax linen	all 1751 drawings on same sheet
167	1751	E - J	Ashpan dumper levers	20 Sep 1920		wax linen	all 1751 drawings on same sheet
167	1751	F,G - H	Bracket for firebar carrier, front, back and centre	20 Sep 1920		wax linen	all 1751 drawings on same sheet

William Beardmore Drawings List

Box Number	Drawing Number	Suffix	Title	Earliest Date	Latest Date	Material	Notes
168	2185	A	Glass gauge cock seatings	24 Aug 1920		wax linen	2185-7 on same sheet
168	2186	L	Glass gauge cock shut-off gear - bearings and cap	24 Aug 1920		wax linen	2185-7 on same sheet
168	2187	L	Glass gauge cock shut-off gear - inside bearing	24 Aug 1920		wax linen	2185-7 on same sheet
168	2184	L	Glass gauge cocks	18 Aug 1920		wax linen	
168	2172	N	Tee-piece for fire hose connection	27 Jul 1920		wax linen	2172-4 on same sheet
168	2173	N	Guide for injector valve spindle	27 Jul 1920		wax linen	2172-4 on same sheet
168	2174	N	Lug for injector valve spindle	27 Jul 1920		wax linen	2172-4 on same sheet
168	2171	N	Clackbox	8 Jul 1920		wax linen	
168	2164	L	Whistle details	30 Jul 1920		wax linen	
168	2146	K	Ferrule for cross bar smokebox	27 Jun 1921		wax linen	2146-9 on same sheet, from Crewe print 15819
168	2147	K	Smokebox cross bar	27 Jun 1921		wax linen	2146-9 on same sheet, from Crewe print 15819
168	2148	K	Packing plate for baffle plate, smokebox	27 Jun 1921		wax linen	2146-9 on same sheet, from Crewe print 15819
168	2149	K	Cross bar shield	27 Jun 1921		wax linen	2146-9 on same sheet, from Crewe print 15819
168	2139	K	Smokebox door hinge	28 Jun 1921		wax linen	2139-42 on same sheet
168	2140	K	Bracket for cross bars, smokebox	28 Jun 1921		wax linen	2139-42 on same sheet
168	2141	K	Smokebox door washer	28 Jun 1921		wax linen	2139-42 on same sheet
168	2142	K	Smokebox door dart	28 Jun 1921		wax linen	2139-42 on same sheet
168	2133	E	Superheater header	none		wax linen	from Crewe print 18817

William Beardmore Drawings List

Box Number	Drawing Number	Suffix	Title	Earliest Date	Latest Date	Material	Notes
168	2112		Expansion angle	28 Jul 1920		wax linen	
168	2106	OO	Shaft connection between operating evers	28 Jun 1921		wax linen	2106-9 on same sheet
168	2107	OO	Operating link on intermediate sandbox	28 Jun 1921		wax linen	2106-9 on same sheet
168	2108	OO	Pipe clip on intermediate sandbox	28 Jun 1921		wax linen	2106-9 on same sheet
168	2109	OO	Intermediate sand valve spindle	28 Jun 1921		wax linen	2106-9 on same sheet
168	2099	OO	Driving sand valve spindle	12 Aug 1920		wax linen	2099-2105 on same sheet
168	2100	OO	Pull rod for driving sand box	12 Aug 1920		wax linen	2099-2105 on same sheet
168	2101	OO	Fulcrum pin driving sand box	12 Aug 1920		wax linen	2099-2105 on same sheet
168	2103	OO	Pull rod for sand boxes	12 Aug 1920		wax linen	2099-2105 on same sheet
168	2104	OO	Lever on valve spindle, intermediate sand box	12 Aug 1920		wax linen	2099-2105 on same sheet
168	2105	OO	Operating lever for sand box gear	12 Aug 1920		wax linen	2099-2105 on same sheet
168	2095	NN	Driver's protection plate	27 Oct 1920		wax linen	
168	2023	D	Regulator handle and fittings	30 Aug 1920		wax linen	
168	2022	D	Regulator stuffing box and eccentric strap	30 Aug 1920		wax linen	
168	2017		Step for front of smokebox	18 Aug 1920		wax linen	
168	2012	RR	Frame plate	5 Oct 1920		wax linen	

William Beardmore Drawings List

Box Number	Drawing Number	Suffix	Title	Earliest Date	Latest Date	Material	Notes
168	1958	TB	Arrangement and details for water pick-up gear	9 Sep 1920		wax linen	from Crewe print 17530
168	1948	J	Ashpan sections	1 Oct 1920		wax linen	
168	1947	K	Shield plate in smokeox	5 Jul 1920		wax linen	from Crewe print 6038A
168	1938	L	Pressure gauge	5 Jun 1920		wax linen	from Crewe print 20707
168	1939	M	Carriage heater pressure gauge	5 Jun 1920		wax linen	from Crewe print 20707
168	1940	MM	Duplex vacuum gauge	5 Jun 1920		wax linen	from Crewe print 20707
168	1937		Wash-out door and plugs	27 Aug 1920		wax linen	
168	1934	EE	Reversing screw and rod details	3 Nov 1920		wax linen	
168	1920	H	Firebar centre and end carriers	28 Sep 1920		wax linen	from Crewe print 11707
168	1912	L & M	Steam blower and jet valve	29 Jul 1920		wax linen	
168	1909	Q	Blast pipe	5 Aug 1920		wax linen	from Crewe print 18078
168	1908	D	Regulator valve and head	7 Jul 1920		wax linen	
169	2395	K	Smokebox	15 Sep 1920		wax linen	lower right corner detached
169	2532	FF	Hinges for firedoor, splasher door and door on platform	9 Dec 1920		wax linen	
169	2394	K	Protection plate for tube plate in smokebox	21 Sep 1920		wax linen	
169	2354	EE	Reversing screw carrier	30 Aug 1920		wax linen	
169	2349	EE	Reversing screw bracket	12 Nov 1920		wax linen	
169	2290	P & L	Handrails and pillars	13 Oct 1920		wax linen	
169	2288	OO	Pin for gearing	28 Jun 1921		wax linen	2288, 2289, 2110, 2111 on same sheet

William Beardmore Drawings List

Box Number	Drawing Number	Suffix	Title	Earliest Date	Latest Date	Material	Notes
169	2289	OO	Cross shaft bracket	28 Jun 1921		wax linen	2288, 2289, 2110, 2111 on same sheet
169	2110	OO	Fulcrum lever, intermediate sandbox	28 Jun 1921		wax linen	2288, 2289, 2110, 2111 on same sheet
169	2111	OO	Fittings for sandbox lids	28 Jun 1921		wax linen	2288, 2289, 2110, 2111 on same sheet
169	2285		Pipe clips and whistle lever bracket	9 Nov 1920		wax linen	
169	2271	OO	Sandbox - driving	4 Oct 1920		wax linen	from Crewe print 20417
169	2249	E	Superheater elements	14 Aug 1920		wax linen	from Crewe print 18839
169	2231	M	Carriage heating steam relief valve	11 Aug 1920		wax linen	
169	2222	NN	Cab pillar, cover plate and fittings	8 Jul 1920		wax linen	
169	2217	MM	Brackets for ejector pipes	6 Jul 1920		wax linen	
169	2203	N	Extension spindle for injector valve	29 Jul 1920		wax linen	
169	2204	N	Nozzle for fire hose	29 Jul 1920		wax linen	
169	2205	N	Fire hose pipe	29 Jul 1920		wax linen	

Prince of Wales Class Microfilm List

Drawing No.	Class	Type	Title	Date
21390	P o W	04/06/2000	Details Castings To Carry Guide & Expansion Link Brackets	06/11/2022
21392	P o W	04/06/2000	Details Coupling Rods	06/11/2022
21393	P o W	04/06/2000	Details Union Rod Combining Lever & Guide Spindle Etc	06/11/2022
21424	P o W	04/06/2000	Details Miscellaneous Castings	06/12/2022
21436	P o W	04/06/2000	Details Splasher	16/12/2022
21685	P o W	04/06/2000	Details Castings To Carry Guide & Expansion Link Brackets Also Expansion Link Brackets	04/09/2023
21703	P o W	04/06/2000	Details Forgings For Rocking Lever Guide Spindles Etc	04/09/2023
21732	P o W	04/06/2000	Details Miscellaneous Castings	03/10/2023
21787	P o W	04/06/2000	General Arrangement Of Motion For Engines Converted After 1/10/23	12/11/2023

