

ON ADMIRALTY LIST.

"SINCLAIR-COMET" LAMP

FOR

LIGHTING RAILWAY YARDS, DOCKS
and LANDING WHARFS, either by
Post or Moveable Tripod.

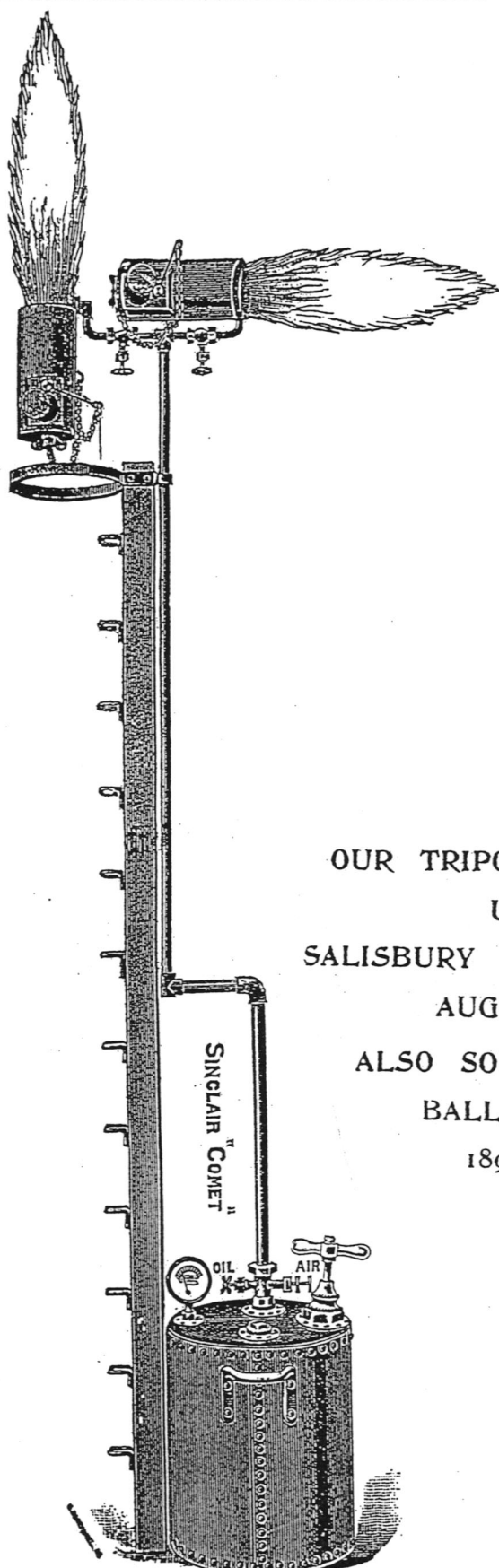
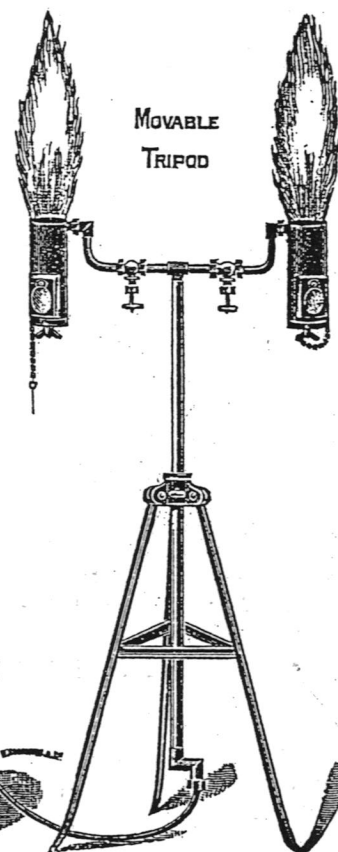
PRICES.

No. 4.—25-gallon Tank, piping for 20 feet mast,
two arms, and Double Burners; No. 3 of 2
2,500 C.P. each — — — — — £18 10 0

Moveable Tripod, extending 10ft. 6in. with Metallic
Tubing; No. 3 20-gall. Tank with 2 No. 2
Burners of 1,500 C.P. each — — — — — £18 10 0

If smaller Tanks and Burners, Price would be less in proportion.

OUR TRIPOD COMET LAMP
USED AT
SALISBURY PLAIN MANŒUVRES
AUGUST, 1898.
ALSO SOUTH AFRICA FOR
BALLOON SECTION
1899 and 1900.



NO CARBON DEPOSIT.

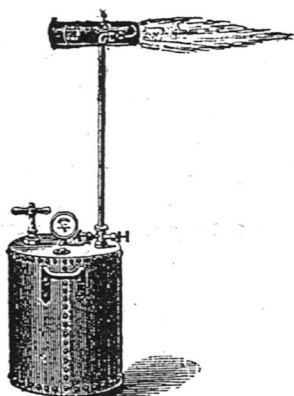
SELF-CLEANSING.

-1901 -

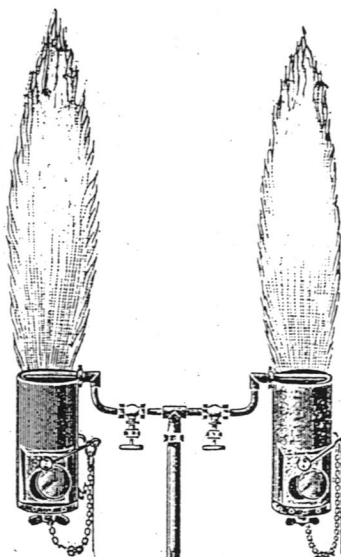
ON ADMIRALTY LIST.

"SINCLAIR-COMET" LAMP

In various sizes.

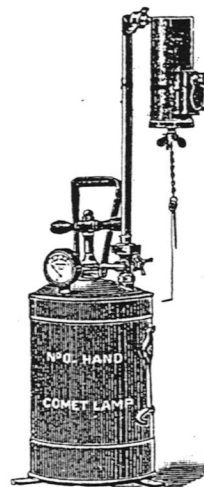


No. 2. 1,500 C.P.

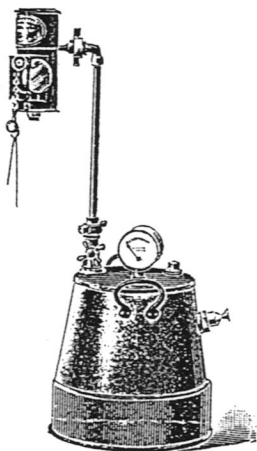


No. 4.

With two 2,500 C.P. Burners,
PRICE £18 10s. 0d.



No. 0. 500 C.P.



No. 000. 250 C.P.



No. 0. 500 C.P.

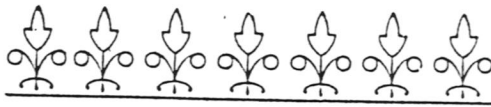
SINCLAIR-COMET LAMPS USED AT SALISBURY MANŒUVRES. 1898. AND BALLOON SECTION, SOUTH AFRICA, 1900.

SELF CLEANSING.

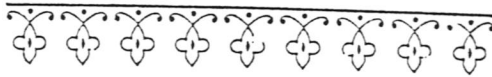
NO CARBON DEPOSIT.

WOODWARD & COPELIN'S "GEM" LAMP

For Burning Refined Paraffin or Petroleum only.



The D.K. Pattern is made of Strong Tinned Steel, holds 3 gallons of oil, a supply for about 8 hours, according to the pressure at which the Lamp is worked, and gives a light of about 1,000 Candle Power.



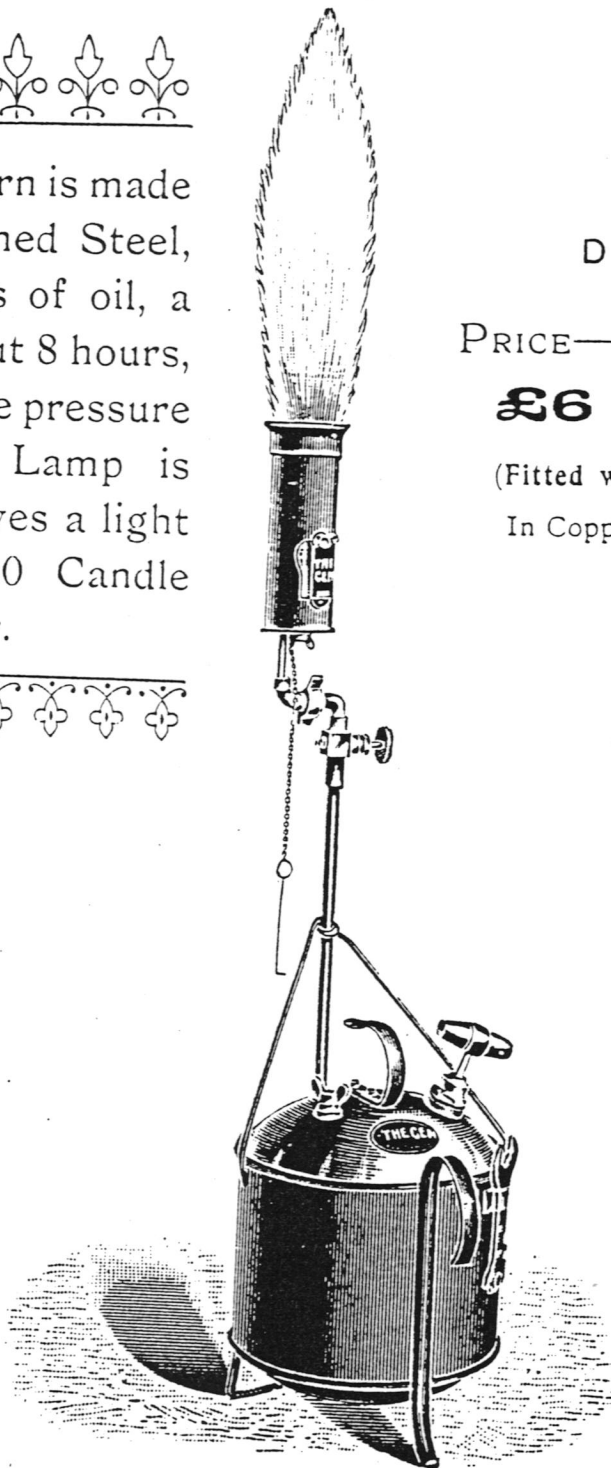
D K Pattern.

PRICE—

£6 10s. 0d

(Fitted with Pressure Gauge)

In Copper 25 per cent. extra.



D K Pattern.

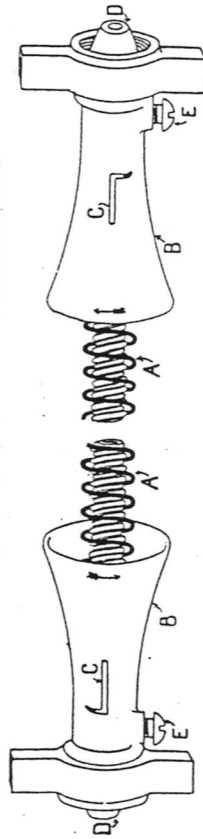
This Lamp is especially useful to Contractors on Railways, Tramways, Waterworks, Electric Light and Telephone Works, and in Laying Cables.

The dimensions are the same as No. 5 B Patt., except that the lamp is fitted with a longer stand pipe and stays, thus lifting the burner above the ground and giving a diffused light over a larger area.

WOODWARD'S PATENT SPIRAL SPRING GRIP for Flexible Metallic Tubing.

INSTRUCTIONS.

This apparatus has been designed to prevent leakage in the flexible metallic tubing supplied with Woodward's Patent Lamps. This leakage is frequently caused by the tubes being inadvertently twisted in the direction that loosens the strips of which they are composed. The action of the apparatus is as follows:—A spiral spring A A' surrounds the tube and is connected with the Bell Guards B B by passing the ends of the wire through the slots C C. The ends of the flexible tube are fitted with the unions D D, which are loose in the ends of the Bell Guards, but can be locked by means of the Set Screws E E.



To bring the apparatus into action—that is to say, to put more tension on the spring, screw one of the unions marked D on to the valve of the Lamp, leaving the other union detached, but the Bell Guard fixed tightly on the union by means of the Set Screw E. Then loosen the Set Screw E in the union fixed on the lamp and turn the Bell Guard in the direction of the arrow; when the tension of the spring turns the detached end of the Tube round once, there is sufficient tension on the spring, then tighten the Set Screw E. The action of the Spring thus keeps the spiral grips closely wound, prevents their being wound too tightly and at the same time leaves the flexibility of the Tube unimpaired.

All Tubes sent out fitted with the Spring Grip have already got the spring wound up, and care should be taken not to unscrew the set screws marked E E except when the spring requires tightening.

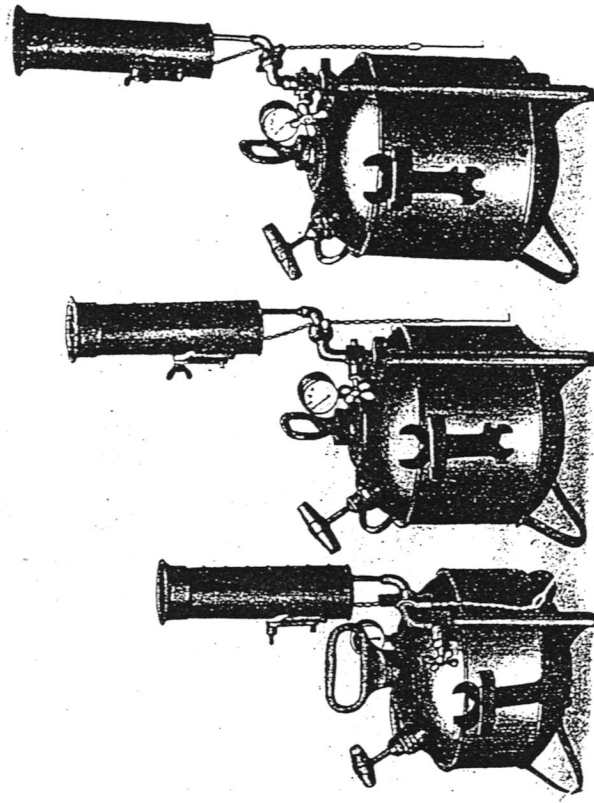
10 feet (usual length) fitted as above, Price £1 15 0

Plain unmounted tube 1/6 per foot any length.

No extra charge for fitting new tube to old mounts.

WOODWARD'S PATENT LAMPS.

Require No Cleaning or Skilled Attendance
and Burn Clean Petroleum or Paraffin.



No 3
500 C.P.

No 4
750 C.P.

No 5
1000 C.P.

No.	Galls.	Candle Power About.	Consumption per Hour.	Supply Hours About.	PRICE.
3	1½	500	2-pt.	6	£5 0s. 0d.
4	2	750	2½-pt.	7	£5 10s. 0d.
5	3	1000	3-pt.	8	£6 0s. 0d.

Weight of No. 5 "B" Pattern Gem Lamp when Charged
with 3 gallons of oil, 45lbs.

WOODWARD'S PATENT LAMPS.

Require No Cleaning or Skilled Attendance
and Burn Clean Petroleum or Paraffin.

WOODWARD'S PATENT LAMPS

Are All of British Manufacture.

No. 8 "C" Pattern Gem Lamp.

Holds 3 gallons of Oil, and is supplied with a Large Burner in addition to the small one, 10ft. of Flexible Metallic Tubing with Bell Guards and Unions and a handle; by making use of these last two fittings, the man working the lamp can use either burners in the same way as he would a gas blow pipe, holding them by a handle, or supporting them by means of the stand on page 8.

The smaller burner of the two (1000 candle power) can be used for illumination or heating light work, the larger one (4000 candle power) is for heating heavy plates, bosses, &c.

Weight of Lamp charged with 3 gallons of oil, 45lbs.

Price Complete as described above £10.

Work done in Actual Practice with a "Gem" Heating Set.

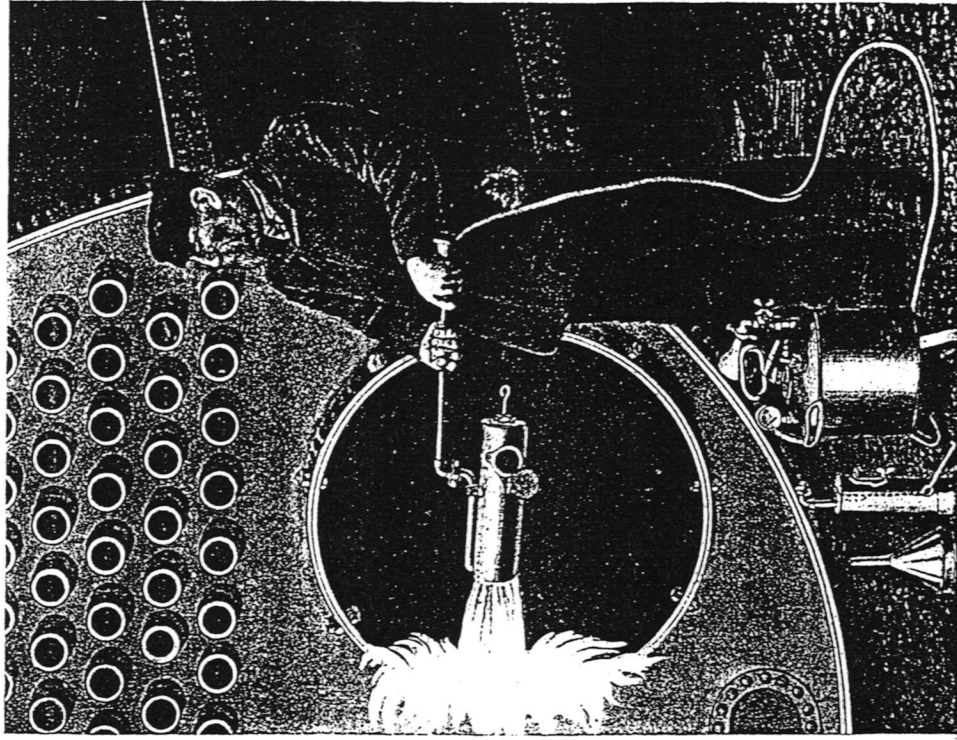
Heating	5 in.	Round	Bar	Red	Hot,	20 minutes
"	3 in.	"	"	"	"	15 "
"	4 in.	Boller Plate	"	"	"	10 "
"	8 in.	"	"	"	"	12 "
"	11 in.	"	"	"	"	20 "
"	9 in.	Crank Web	"	"	"	45 "

WOODWARD'S PATENT LAMPS.

Require No Cleaning or Skilled Attendance
and Burn Clean Petroleum or Paraffin.

WOODWARD'S PATENT LAMPS

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No. 8 "C" Pattern Gem Lamp for Lighting and Heating with Two Burners 4000 and 1000 Candle Power respectively, handle, 10ft. Flexible Metallic Tubing with Bell Guards and Connections, Reservoir, etc.

Price Complete as Illustrated above £10 0s. 0d.

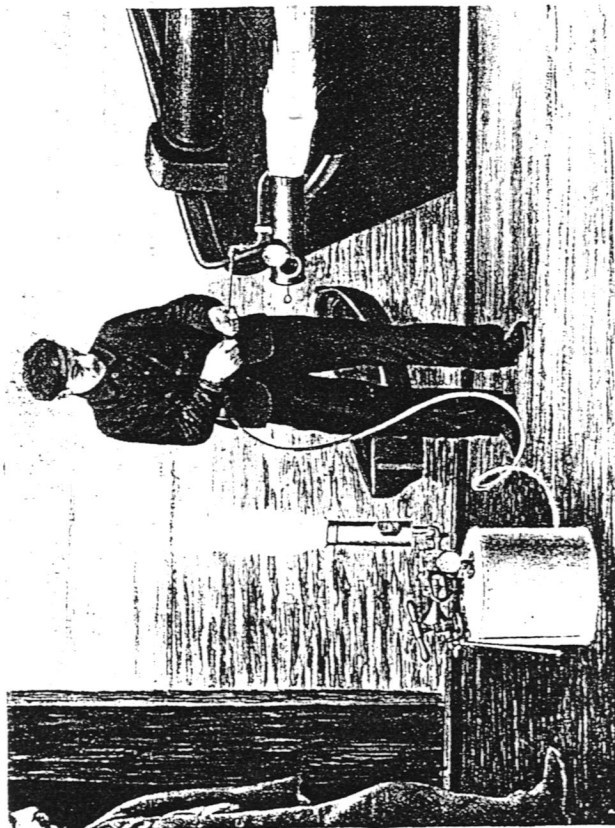
FOR DESCRIPTION SEE PRECEDING PAGE.

WOODWARD'S PATENT LAMPS

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WOODWARD'S PATENT LAMPS

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"G" Pattern Set.

This is a stronger made Lamp than the "C" pattern and has many advantages over it. The Reservoir is made of $\frac{1}{2}$ in. plate, rivetted, caulked and galvanized, and holds 5 gallons of Paraffin Oil, and is fitted with filling plug and handle in centre and 2 handles on side.

It is fitted with an improved pump that will supply oil or air to the Reservoir as may be required. The oil valves are in duplicate, so that both burners can be used at the same time; the small one on the Reservoir for lighting purposes, and the large one at the end of the flexible tube and handle for heating purposes, or the small burner can be used at the end of the flexible tube for heating light work, or for lighting spaces into which the Reservoir cannot be taken.

Price Complete as Illustrated above £12 0s. 0d.

"J" Pattern Set.

The same as above with the addition of another flexible metallic tube and handle, enabling both burners to be used for heating at the same time.

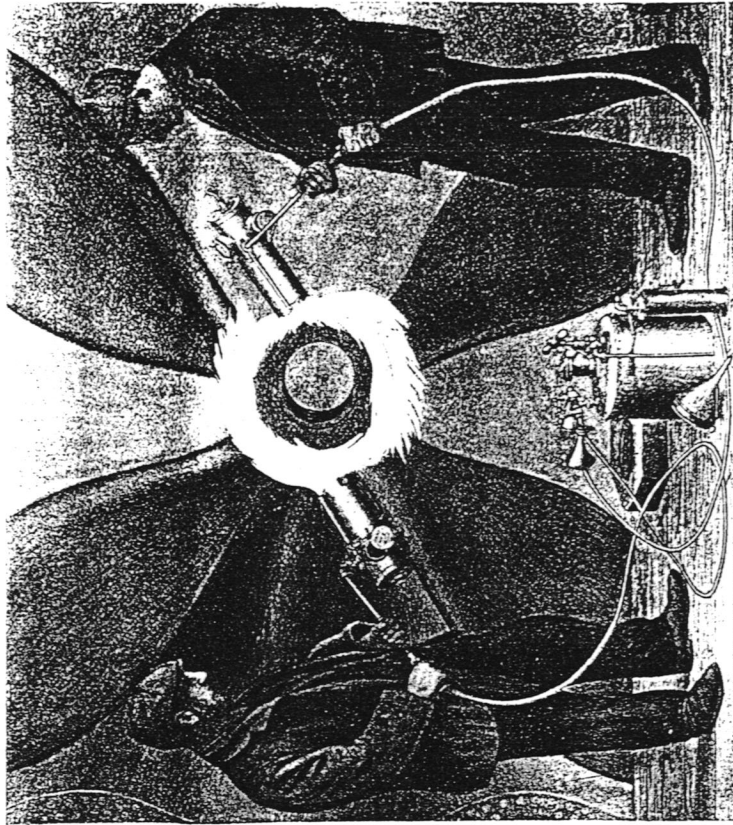
Price Complete £13 15s. 0d.

WOODWARD'S PATENT LAMPS

Require No Cleaning or Skilled Attendance
and Burn Clean Petroleum or Paraffin.

WOODWARD'S PATENT LAMPS

Are All of British Manufacture.



The Gem Lamp and Heater (Admiralty Pattern)

AS SUPPLIED TO

H.M. DOCKYARDS AT PORTSMOUTH, CHATHAM, GIBRALTAR, &c.

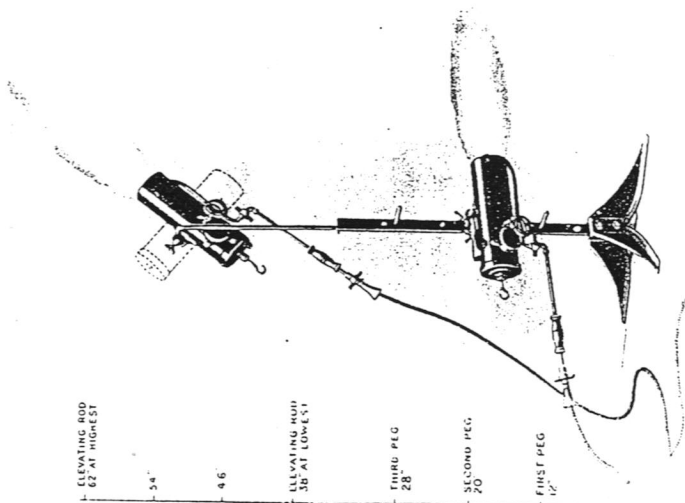
This pattern Lamp has Rivetted Reservoir with 2 handles on the sides and combined handle and filling plug in centre, Special Pump for Air and Oil, Duplex Oil Valves, and Pressure Gauge, and it is supplied with 2 10-ft. lengths of Flexible Metallic Tubing, 2 Handles, 2 large Heating Burners of 5000 Candle Power each, and 1 small burner of 1000 Candle Power.

Price Complete as Illustrated above, £15 10s. 0d.

WOODWARD'S PATENT LAMPS

Require No Cleaning or Skilled Attendance
and Burn Clean Petroleum or Paraffin.

WOODWARD & COPELIN'S GEM LAMPS
Are All of British Manufacture.

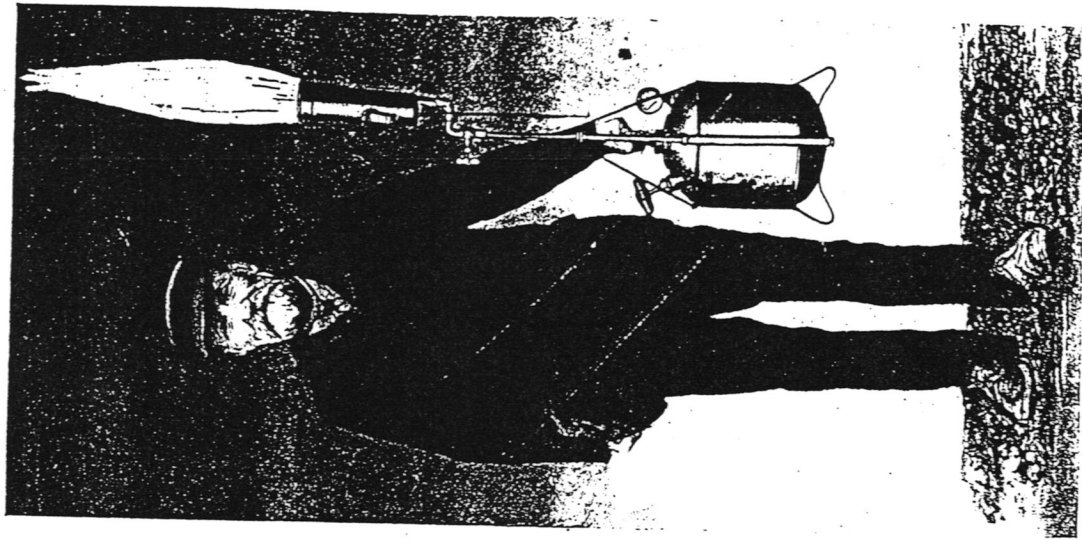


The Stand as illustrated above is designed for holding "Gem" Heating Burners in any position or at any angle up to a height of 5ft. Any number of burners can be used at the same time by means of this arrangement and they can be set to concentrate all their heat on the work to be done. The burners are suspended from the lugs on casing and are locked in position by means of the Set-Screw.

Price of Stand £1 10 0

WOODWARD & COPELIN'S GEM LAMPS
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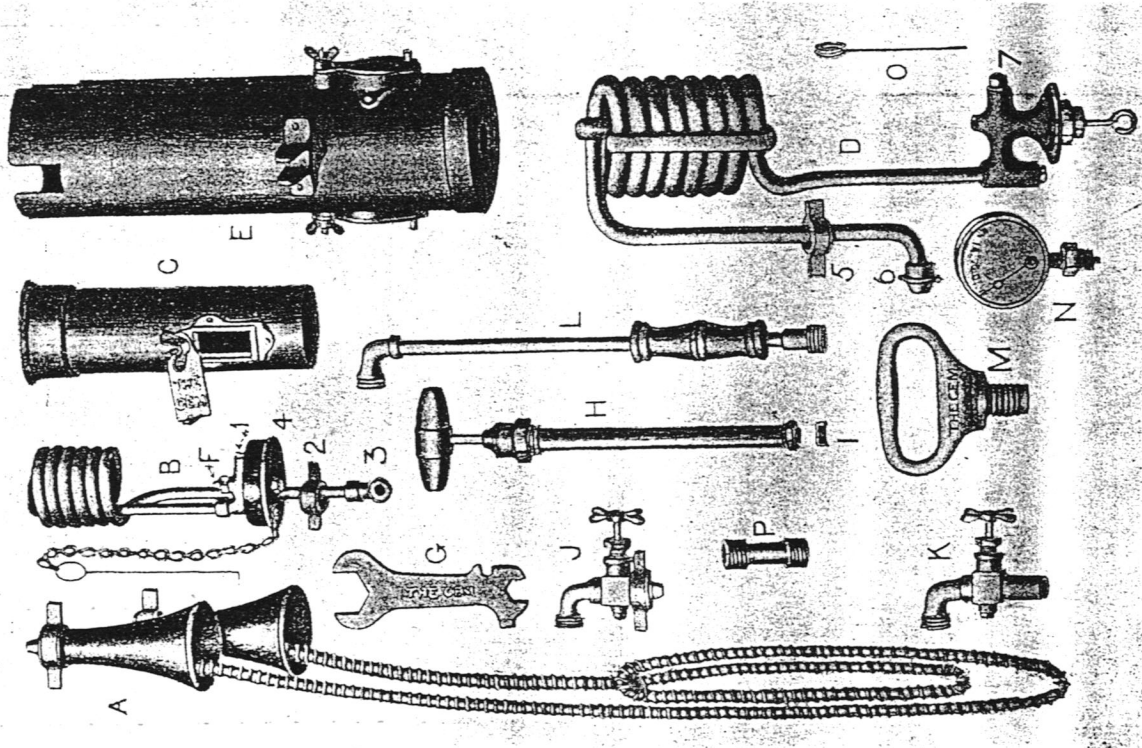
WOODWARD & COPELIN'S GEM LAMPS
Are All of British Manufacture.



The "D.K." Pattern GEM Lamp is designed especially for Contractors, and work on Railways, Tramways, Water Works, Electric Lighting and Telephone Works, &c., &c., and for Laying Cables

This Lamp is in every particular the same as the No. 5 "B" pattern GEM Lamp, with this exception that the burner is fitted to a longer Stand Pipe, thus raising it higher from the ground, and so lighting a larger area.

The "D.K." Pattern as illustrated, price £6 10s. 0d.



WOODWARD & COPELIN'S GEM LAMPS
Require No Cleaning or Skilled Attendance
and Burn Clean Petroleum or Paraffin.

A	Flexible Tube with Bell Guards and Unions, complete	35/-
	If old fittings are returned a new tube can be fitted, 10ft. long, at 1/6 per foot	15/-
B	Vapourising Coil and Fittings for B. and D.K. pattern Lamp	13/3
	If fittings numbered 1, 2, 3, and 4 are returned a new solid drawn steel coil can be fitted to them	10/6
C	Casing for Vapourising Coil for B. and D.K. pattern Lamp	4/3
D	Vapourising Coil and Fittings, Nos. 6 to 9 Heater	25/-, 27/6, 30/-, 32/6
	If fittings numbered 5, 6 and 7 are returned a new coil can be fitted to them	12/-, 15/-, 17/6, 20/-
E	Casing for Vapourising Coil Nos. 6 to 9 Heater, 10/-, 12/-, 15/-, 16/-	
F	Steel Burner Nipple for B. and D.K. pattern Lamp	1/6
G	Spanner	1/-
H	Air Pump	8/6
	If for Rivetted Tank	32/-
I	Cup Leather for Pump	3d.
J	Oil Valve for B. pattern Lamp	10/-
K	Oil Valve for D.K. pattern Lamp	9/-
L	Handle for Heating Burner	7/6
M	Filling Plug and Handle combined, with Vulcanite Washer for Tank	5/-
N	Pressure Gauge	10/6
O	Rimer for Heating Burner	3d.

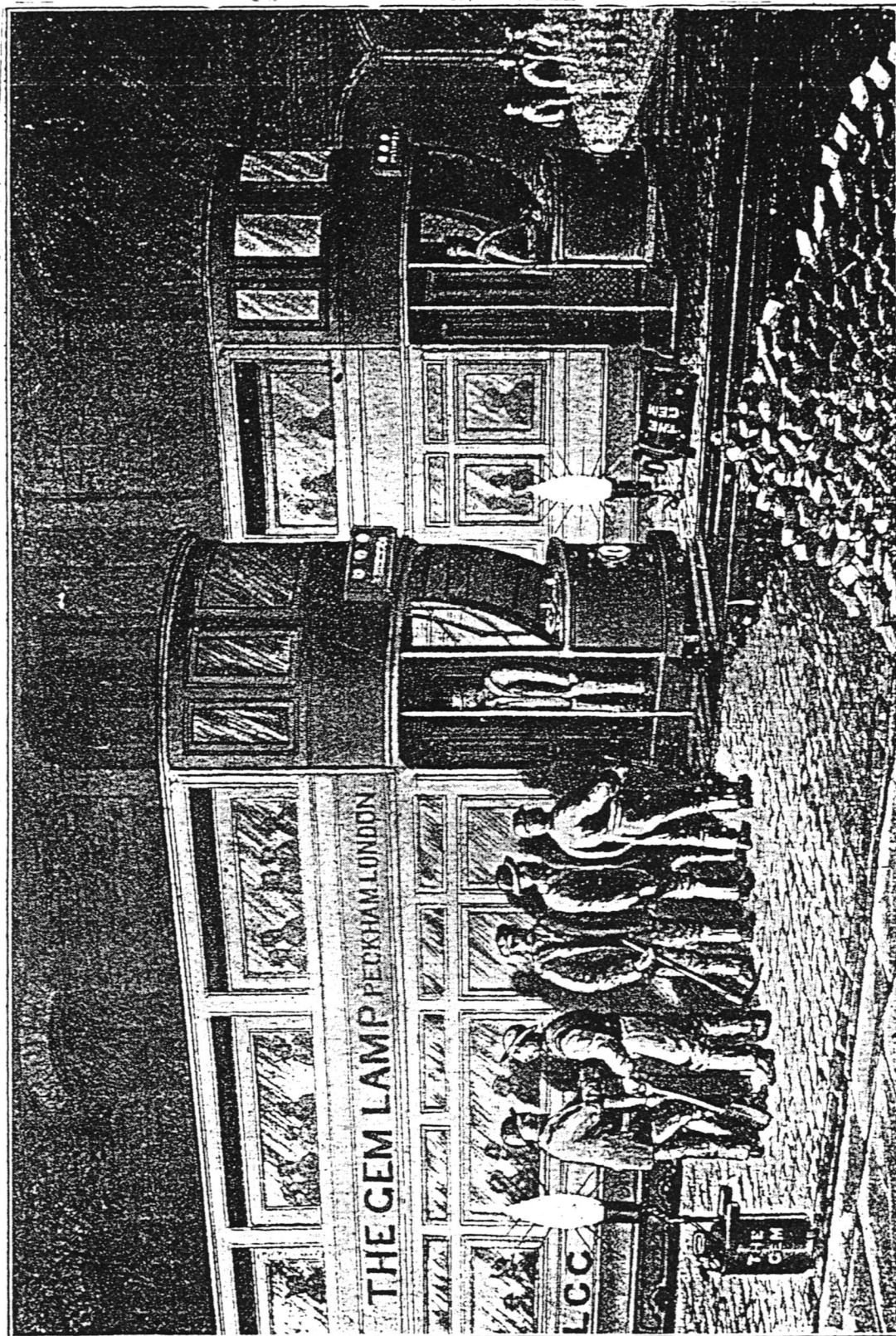
PRICE OF BURNERS COMPLETE.

Up to No. 5 Size	17/6
No. 6 Heating Burner	30/-
No. 7	35/-
No. 8	40/-
No. 9	45/-

WOODWARD & COPELIN'S GEM LAMPS.
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THE "GEM" IMPROVED TRAMWAY LAMP

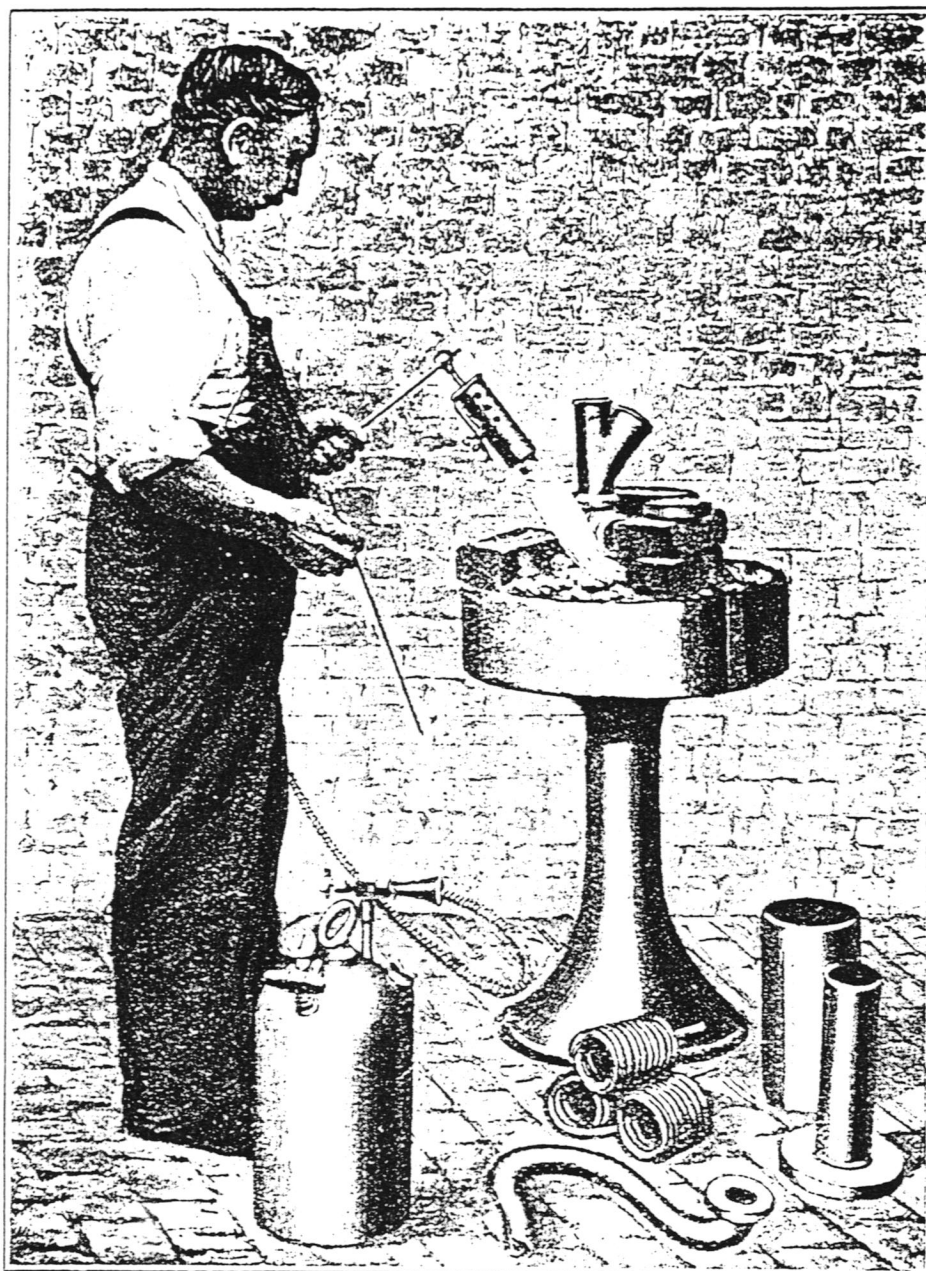
FOR PERMANENT WAY REPAIRS, &c.)



AS ADOPTED BY THE LONDON COUNTY COUNCIL.

Price of L.C. Lamp (1000 candle power), complete £6 10s. 0d.

Are all of British Manufacture.



The "Gem" Brazing Set.

Burning Ordinary Clean White Paraffin only.

Price as Illustrated, with Reservoir of Two Gallons.

£ s. d.

WOODWARD'S PATENT HEATERS

Require no Cleaning and Burn Clean Petroleum or Paraffin.