

THE LAMP.

" NEAREST TO SUNLIGHT "

Replacement of Filters & Pricker Pins in "Blanchard" Burners.

The "Filter" and the "Pricker Pin" are the only two parts in the lamp which require renewing periodically.

The "Filter" consists of a piece of tightly rolled steel gauze encased in a brass "jacket." The carbon formed during the conversion of the liquid petroleum into vapour is collected and retained by this filter. When the gauze is completely choked, a very poor light is obtained from the lamp, and Filter must be changed. The average life of a Filter is 400 burning hours. To change the Filter :—

Models 870, 873, 875, 900, 910, 1173, 1177, 1115, 1215 and 1217.

Unscrew the Union Nut (which is part of the Burner and not part of the Lamp Radiator) with the Blanchard Spanner. (See Fig. 1.) Pull away the Burner and the Filter will come with it.

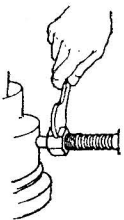


Fig. 1.

Drive Filter Extractor through the two holes in Filter jacket and withdraw Filter by a zig-zag pulling movement. (See Fig. 2.) Clean out Filter Chamber of Burner with a fine screwdriver or strong wire. Also see that small hole at far end of Filter Chamber is clear. Push new Filter into Filter Chamber.

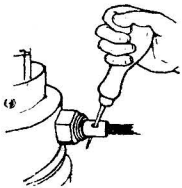


Fig. 2.

If the new Filter appears to be too large to enter Filter Chamber, the entrance of the latter should be slightly enlarged by inserting and twisting a "Cone Opener," which will remove a slight skin of the metal. (See Fig. 3.) A Cotton plug, pushed into the Filter Chamber before, and removed after, the use of this tool, will prevent any brass dust from entering the burner.

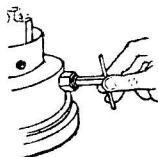


Fig. 3.

Before replacing Burner on the lamp, see that the arm is clear, by driving a little paraffin through it from the container.

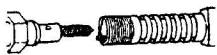


Fig. 4.

Replace Burner and screw up Union Nut tightly. (See Figs. 4 and 1.)

Models 1370, 1373, 1375, 1377. First unhook and swing dummy radiator aside, then proceed as above. The "dummy radiator," is the connection on the other side of the Burner.

Model 1000. First unscrew Dummy Union Nut and swing Dummy Radiator aside, then proceed as above.

It will be found easier to work at Union Nut on Models 1215, 1375 and 1377, if the Enamel Cowls are first removed.

Models 1380 and 1680. Unscrew nuts of Oil Connection and swing same aside revealing Filter end. Proceed as above. The Filter for this type of lamp has no tail. See, therefore, that new Filter has the holed end of jacket projecting from lamp.

If a Filter is too stiff to be removed, heat up the Burner with a charge of methylated spirit, and remove Filter whilst Burner is hot ; or insert Filter in a vice and pull on Burner with a zig-zag movement.

P.T.O.

THE BLANCHARD LAMP.

" NEAREST TO SUNLIGHT "

The " Pricker Pin " in a Blanchard Burner is an extremely fine piece of silver steel, fitted into a sheath, with a ratchet attachment. (" Pricker Rack.")

Its function is to clear the Nipple orifice (through which the vapour passes) of any obstruction, It is fitted inside the " Burner Body," and when actuated, drives the obstruction right out of the Burner through the Nipple orifice. (In nearly all other vapour lamps, the Nipple orifice is cleared from the **outside**, which means driving the obstruction back **into** the Burner.)

Should the Pricker Pin whilst being operated, meet an obstruction (usually a piece of very hard carbon) which it cannot drive through the Nipple orifice, it will break, and the lamp will be extinguished. To replace a broken Pricker Pin, and clear the Nipple orifice :—

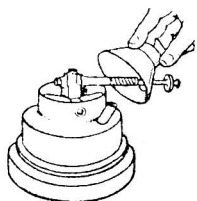


Fig. 5.

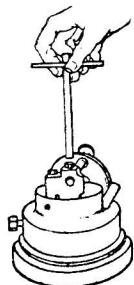


Fig. 6.

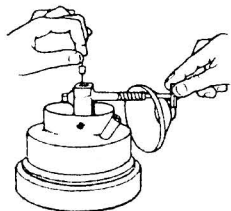


Fig. 7.

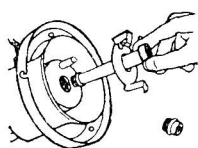


Fig. 8.

Remove Globe, Mantle, and loose coverings from the Burner. The Burner itself can be disconnected from the lamp if desired. Slide Burner Cap along Spindle, revealing Burner plugs. (See Fig. 5.) With the Box Key, unscrew and remove the Top Guide. (See Fig. 6.) Turn the Pricker Handle so as to wind the Pricker upwards, and lift out Pricker. (See Fig. 7.)

Remove Burner Head, Mantle Holder and Injector Tube by unscrewing. (See Fig. 8.) Push Box Key up sleeve and withdraw Nipple by unscrewing. (See Fig. 9.) If Nipple is wet with paraffin, dry it off in a gas flame, or on a hot stove. The broken Pricker Pin point (which is usually the object causing the obstruction) can generally be felt if the finger is passed over the face of the Nipple. This point must be thrust back as follows :—With a quick, firm movement, press the Nipple face down on something hard and flat. This will probably push the pin-point back, and by reversing the Nipple and tapping it gently on a hard surface, the pin-point will probably fall out of the Nipple. If not, rub the face of the Nipple gently on an oil stone or a piece of fine emery paper till the pin-point can no longer be felt. Then dislodge this pin-point by pressing on it with the point of an ordinary pin. (See Fig. 10.) Reverse the Nipple and tap it on a hard surface and the pin-point will probably fall out, but if not, complete the operation of the ordinary pin with a Blanchard Pricker Pin of the correct size, *i.e.*, of the same candle-power as the Nipple. **ON NO ACCOUNT** bore or screw anything into the Nipple hole, nor try to push the obstruction out **through** the Nipple hole from the inside, as this will enlarge the hole and render the Nipple useless.

To replace the Nipple, set it in the Box Key face inwards. (See Fig. 11.) Insert up Burner Sleeve and screw tightly home. (See Fig. 9.) Replace Mantle-holder Injector Tube and Burner Head. (See Fig. 8.) Unscrew top Cap of Pricker Rack, and push the broken Pricker Pin out of the Rack from the bottom. (See Fig. 12.) Insert a new Pricker Pin, and screw Rack Cap back firmly.

Replace Pricker in Burner, seeing that the teeth of the Rack and Spindle are properly engaged. (See Fig. 13.) Turn Pricker down by means of Pricker Handle (See Fig. 7) to the lowest position, and screw in Top Guide, seating it down tightly with the Box Key. (See Fig. 6.) Re-open Pricker, and the lamp is again in order for lighting.

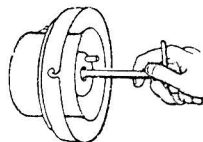


Fig. 9.



Fig. 10.



Fig. 11.

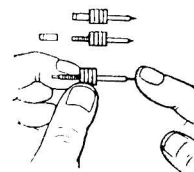


Fig. 12.

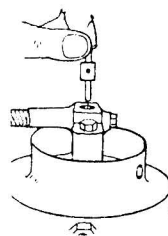


Fig. 13.

P.T.O.

THE "BLANCHARD" LIGHT

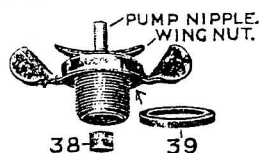
HOW TO DETECT AND REMEDY AN ESCAPE OF AIR FROM THE CONTAINER OF A "BLANCHARD" LAMP

TABLE LAMPS.

See that Pump and Release Valve are Screwed in firmly.

Light lamp in usual way, and then plunge Container of Lamp under water. Bubbles will issue from the leaky places, which may be :—

1. **The Release Valve.** Grip the head of the Release Valve with a pair of round-nosed pliers, and jam it down two or three times, thus reforming the "seating" at the bottom of the valve.



If this is not successful, a "Release valve seating cutter" must be screwed into the valve, and a new seating cut.

2. **At the Pump Collar.** See 5 below.

3. **Leak at Piston Collar.** See 6 below.

HANGING LAMPS.

See that Filler Fitting is screwed down firmly.

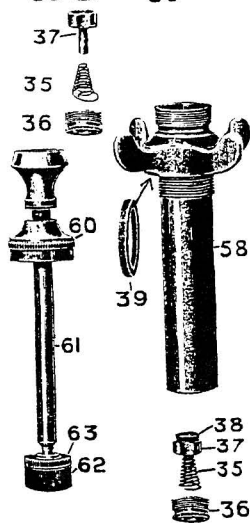
4. **Leakage at Filler Fitting.** Inflate lamp to 20 lbs. pressure ; then, turning the lamp on its side, plunge the Filler Fitting under water. Bubbles will issue from the leaky places, which may be :—

5. **Round the Filler Fitting Collar.** The cork washer (39) is worn out or torn, and allows the air to escape round the container collar.

The washer must be dug out and a new one put in its place. The smooth side of the new washer should be outwards.

6. **At the Filler Fitting Pump Nipple.** The air escapes from the Pump Nipple of the Filler Fitting, or at the Piston Cap (60) of the Pump, due either to a faulty Cork (38) in the Plunger (37), or a weak Spring (35).

Remove the small Screw Cap (36) at the bottom of the Filler Fitting with a pair of pliers, and withdraw the Spring (35) and Plunger (37). In bracket or table lamps this Screw is at the bottom of the Pump Cylinder (58).



See if the Cork (38) in the cup of the Plunger (37) is clean and without cracks. If so, the fault lies with the Spring (35).

Strengthen the Spring (35) by pulling it out slightly, or if this does not prove sufficient, replace the Spring.

If the Cork (38) in the Plunger (37) is dirty or rough, rub it smooth on an oilstone, or replace it.

If there is a crack in the Cork (38), replace it. Form a "seating" on the new cork by pressing strongly on the tail of the Plunger (37), which projects through the Screw Cap (36) after it is replaced.

Always saturate a new valve cork in paraffin. This can be done by screwing the Filler Fitting (or Pump) into the Container, and turning the lamp over for two seconds.

The small wing nut on the Pump Nipple of the Filler Fitting works a needle valve which, when screwed down is an extra guarantee against leakage.

If the Pump works with a jerky movement, unscrew Piston Cap (60) and withdraw Piston from the Barrel (58). See that the Leather Screws (63) are gripping the leather firmly. If not, tighten them up. Splay the Leather (62) out and rub a little thick machine oil all over it, and then replace the piston in the barrel.

DO NOT POUR OIL INTO THE PUMP BARREL.

If the Leather (62) is worn or cut, replace it.

7. **Leakage at Pressure Gauge Collar.** Inflate lamp to 20 lbs. pressure, then let one drop of thick oil run round Pressure Gauge Collar. Bubbles will rise if there is a leak.

Unscrew Pressure Gauge and dig out lead washer from Container with Filter Extractor. Place a new washer on the Nipple of the Gauge and screw back into Container.

8. **Leakage Round Lid of Container.** Extremely rare occurrence. Leakage must be stopped by resoldering.

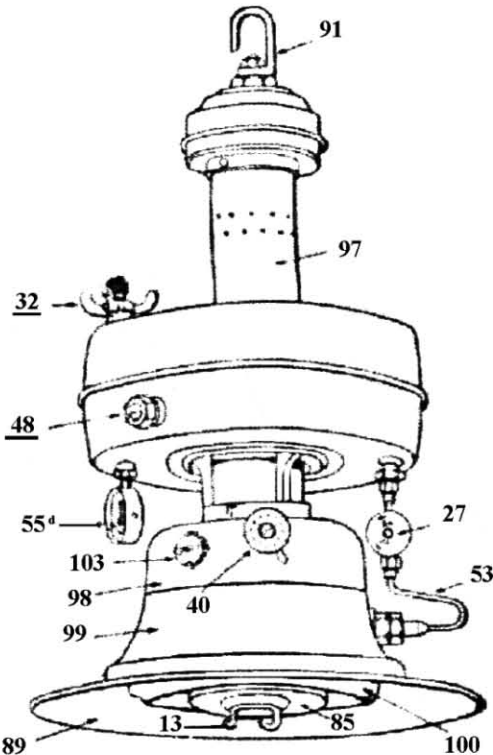
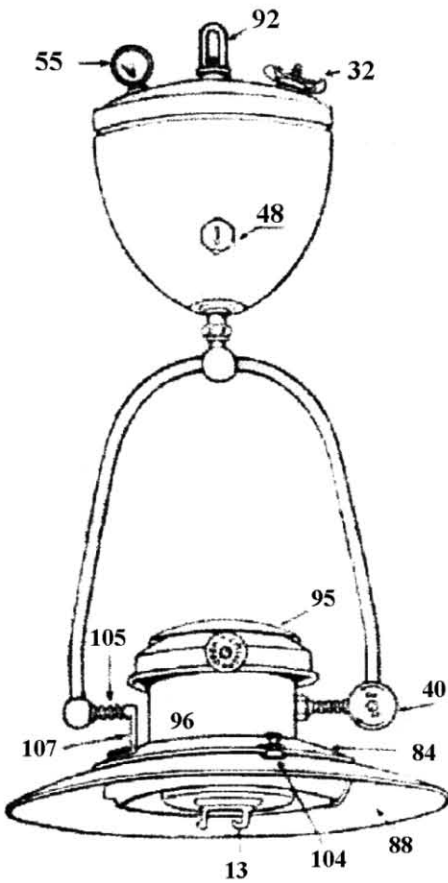
			s.	d.
* 21	Asbestos Wool (for spirit cups) ...	lb.	5	0
* 21a	Spirit Cup N.T.	each	1	9
* 22	Asbestos Wick (for spirit shoots) ...	"	0	2
23	" Rope (for reflectors) ...	foot	0	6
24	Burner Head Pins 1100 series ...	doz.	0	3
24c	" " " 1600 series ...	"	2	3
* 25	Oil Tap complete 1100, 1300, 1600 series	each	2	3
* 26	Oil Tap Fork Nut	doz.	2	0
* 27	" Fibre	each	0	6
* 28	" " Mount	"	0	3
* 29 30	" Stuffing Box and Nut ...	"	0	9
30a	Stuffing (for oil taps) ...	"	0	1
31	Oil Tap Spindle	"	0	9
32	Filler Fitting complete	"	3	9
33	" " Body	"	3	6
* 35	" " Valve Spring	"	0	1
* 36	" " Valve Box	"	0	2
* 37	" " Valve Plunger	"	0	2
* 38	" " Valve Corks	doz.	0	6
* 39	" " Valve Washers	"	2	0
* 40	Pricker Handle complete 1600 series	each	2	0
* 41	" " Fibre 1600 series	"	0	6
* 42	" " Mount 1600 series	"	0	3
* 43	" " Distance Piece 1600 series	"	0	1
* 44	" " Knurled Cap 1600 srs	"	0	4
* 45	" " Spindle 1600 series	"	1	0
* 46	Container Filter 1100, 1300 1600 series	"	0	6
* 47	Adaptor	"	0	8
* 48	Oil Gauge	"	2	0
* 49	" " Needle	"	1	0
* 50	" " Corks	doz.	1	0
* 50a	" " Complete	each	3	0
* 51	Burner Filter 1100, 1300 series	"	0	10
* 52	" " 1600 series ...	"	0	10
* 53	Oil Connection 1600 series ...	"	2	0
* 54	Reflector Clips and Screws 1600 srs	doz.	4	0
* 55	Pressure Gauge 100, 300, 500, c.p.	each	9	0
56	" " Washers	doz.	1	0
57	Container Pump complete	each	6	9
* 58	" " Barrel	"	4	0
* 59	" " Handle	"	0	9
* 60	Container Pump Knurled Cap ...	each	0	8
* 61	" " Spindle	"	0	4
61a	" " " Washers	"	0	1
* 62	" " Leathers	"	0	1
* 63	" " Leather Screws	set	0	6
* 64	" " Valve Box	each	0	4
65	Globe Ring complete 1100 srs old type	"	1	3
66	" " " new type	"	1	3
* 67	" " only 1100 series, old type	"	0	6
* 68	" " " new type	"	0	6
* 69	" " Handle complete	"	0	9
* 72	Oil Valve Body 1600 series ...	"	3	9
* 73	Box Key 100, 300, 500, c.p. ...	"	0	10
* 74	Spanner 1600 series	"	1	0
* 75	" " 1100, 1300 series ...	"	0	10
* 76	Filter Extractor	"	0	10
* 77	Top Corona 100, 300, c.p. ...	"	2	9
* 78	Bottom Corona 100, 300, c.p. ...	"	4	6
* 79	Globe Gallery 1100 series ...	"	3	6
* 81	Tulip	"	1	9
* 82	Release Valve Screw	"	0	9

			s.	d.
* 83	Inner Reflector 1100 series	each	1	10
* 84	" " 1300 series	"	5	0
84a	" " Screws, Nuts, and Washers	doz.	1	0
* 85	" " 1600 series	each	5	3
85a	" " 1600 Screws and Washers	doz.	1	0
* 88	Outer Reflector 1300 series	each	8	6
* 89	" " 1380, 1680 models	"	7	6
90	" " 1381, 1681 models	"	18	0
* 91	Swivel Hook and Nut 1600 series	"	1	3
* 92	" " Eyw and Bolt 1100, 1300 series	"	1	3
* 93 94	Cowls for Chimney 1600 series ...	set	6	0
* 95	Top Cowl 1300 series	each	5	8
* 96	Bottom Cowl 1300 series	"	4	6
* 97	Outer Chimney 1600 series ...	"	3	6
* 98	Copper Dome 1600 series	"	7	6
* 99	Cast Iron Hood 1600 series ...	"	12	6
* 100	Globe Ring 1600 series	"	4	0
101	" " Hinge 1600 series ...	"	0	8
102	" " Fastener 1600 series	"	1	0
* 103	Spirit Trap 1600 series	"	1	3
* 104	Reflector Fastener 1300 series ...	"	1	0
* 105	Dummy Radiator 1300 series ...	"	2	6
106	" " 1000, 1010 models	"	2	3
* 107	" " Hook 1300 series	"	0	6
108	Copper and Asbestos Washer 1/2 inch	doz.	2	0
109	" " " 1 1/4 "	"	4	0
110	" " " 3/4 "	"	2	0
111	Globe Net 1600 series	each	1	0
114	Heat Deflector 1100, 1300 series ...	"	2	6
116	Inner Chimney 1600 series	"	3	0
117	Lead Washers (for oil gauge) ...	doz.	1	0
120	Billiard Shades	each	7	6
125	Ceiling Hooks	"	6	3
127	Hand Pump. 15in.	"	5	0
129	" " Connection	"	1	6
130	" " Leathers	"	0	1
132	Spirit Flask 100, 300, 500 c.p. ...	"	5	0
133	Tin Funnel with Gause	"	1	6
134	Tripods	from	60	0
135	Wall Hooks (Bracket Lamps) ...	each	0	6
136	Wire Cage (for Globes)	"	7	6
137	Wire Guard (for Globes) 1380, 1680 modls	"	5	0
138	" " 1380, 1681 models	"	7	6
139	Blow Back	"	1	6
140	Burner Cone Reseater	"	16	0
141	Filter Chamber Reamer	"	8	0
143	Long Guide	"	3	0
145	Plug Reseater	"	7	0
147	Radiator Reseater	"	16	0
148	Short Guide	"	3	0
149	Tap Wrench	"	2	0
150	Vapour Tube eamer	"	2	0
151	Plug Hole Tap	"	5	6
152	Full Thread Plug Tap	"	6	0
153	Iron Cleats	"	0	6
155	Pully, 2 - inch	"	0	9
156	" " 3 - inch	"	1	6
157	S Hooks (Iron)	"	0	6
158	" (Brass)	"	0	6
159	Spring Clips	"	1	0
160	Thimbles 1100, 1300 series	"	0	4
161	" " 1600, 2000 series	"	0	6

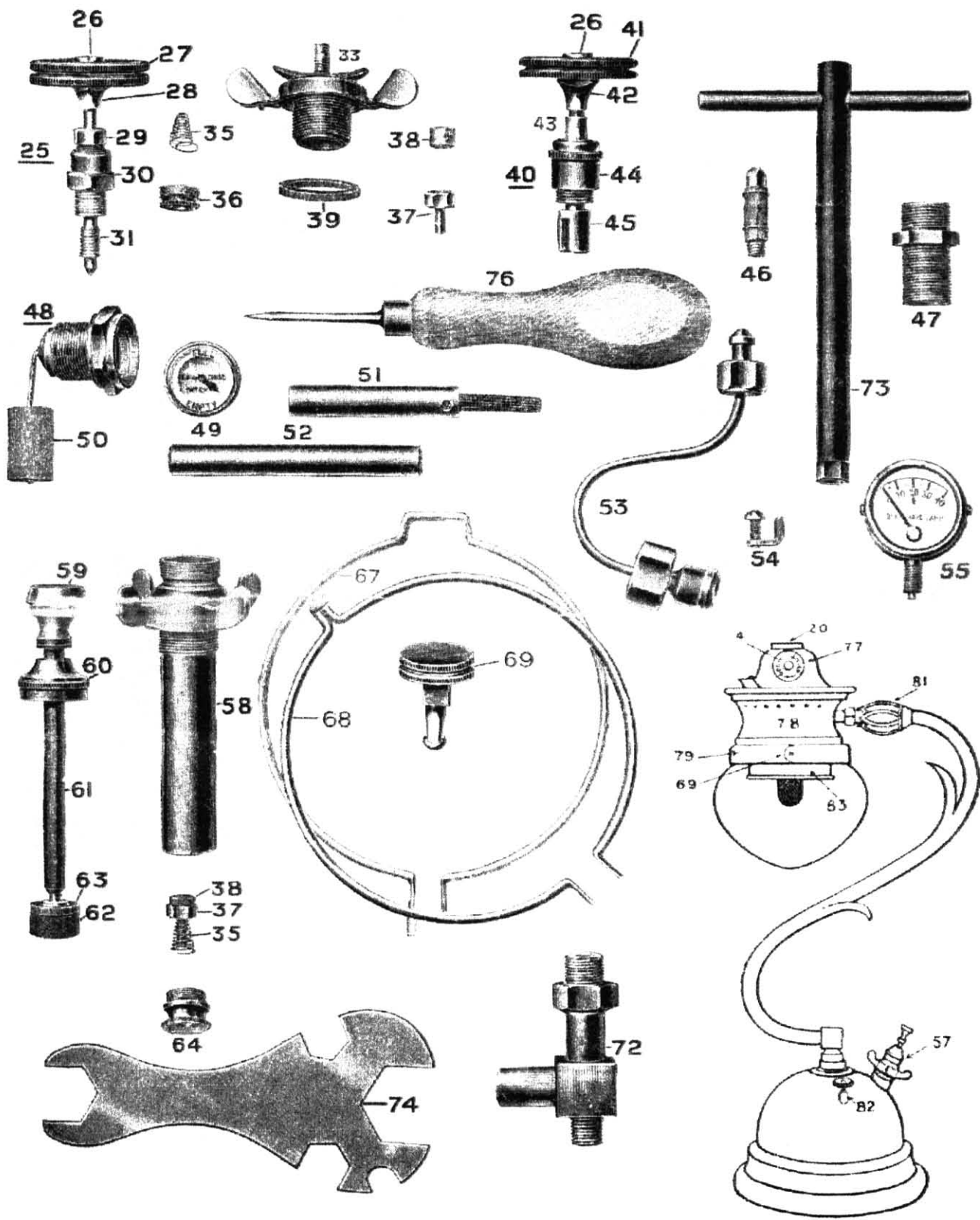
WHEN ORDERING GOODS, please state :- Number, Name of Article, and Candle Power or Series

REVISED PRICES

APRIL 1922



* 6	Pricker Rack	100 c.p.	...	each	1 1
*6b	" "	300 c.p.	...	"	1 1
*6c	" "	500 c.p.	...	"	1 1
*6 N.T.	" "	100 c.p.	...	"	1 1
*6b N.T.	" "	300 c.p.	...	"	1 1
*6c N.T.	" "	500 c.p.	...	"	1 1
*7	Pricker Pin	100 c.p.	...	"	0 5
*7b	" "	300 c.p.	...	"	0 5
*7c	" "	500 c.p.	...	"	0 5
*7 N.T.	" "	100 c.p.	...	"	0 5
*7b N.T.	" "	300 c.p.	...	"	0 5
*7c N.T.	" "	500 c.p.	...	"	0 5
6/7	Pricker complete	100 c.p.	...	"	1 6
6/7b	" "	300 c.p.	...	"	1 6
6/7c	" "	500 c.p.	...	"	1 6
6/7 N.T.	" "	100 c.p.	...	"	1 6
6/7b N.T.	" "	300 c.p.	...	"	1 6
6/7c N.T.	" "	500 c.p.	...	"	1 6
*14	Injector tube	300 c.p.	...	"	1 6
*15	Burner head	100 c.p.	...	"	1 0
*15b	" "	300 c.p.	...	"	1 6
*15c	" "	500 c.p.	...	"	1 6
*17	Injector tube	100 c.p.	...	"	0 9
*19	Burner Complete	1100 series	...	"	40 6
*19b	" "	1300 series	...	"	42 0
*19c	" "	1680 series	...	"	53 0
*19f	" "	1380 series	...	"	53 0
*21	Asbestos Wool (for spirit cups)		...	lb.	4 0
*21a	Spirit Cap N. T.	...	...	each	1 6
*25	Oil tap complete	1100, 1300, 1600 series	...	"	2 0
*26	Oil Tap Fork Nut	...	...	doz	1 0
*28	" " Mount	...	...	each	0 2
*29/30	" " Stuffing Box and Nut	...	...	"	0 7
*31	Oil Tap Spindle	...	...	"	0 6
*33	Filler Fitting Body	...	...	"	3 0
*39	" " Washers	...	...	doz	1 0
*48	Oil Gauge	...	...	each	1 9
*51	Burner Filter	1100, 1300 series	...	"	0 9
*52	" "	1600, Series	...	"	0 9
57	Container Pump Complete	...	...	"	6 6
*58	" " Barrel	...	...	"	3 8
*59	" " Handle	...	...	"	0 6
*60	Container Pump Knurled cap	...	...	"	0 6
*64	" " Valve Box	...	...	"	0 2
*73	Box Key	100, 300, 500 c.p.	...	"	0 9
*74	Spanner	1600 series	...	"	0 10
75	" "	1100, 1300 series	...	"	0 7
*76	Filter Extractor	...	...	"	0 8
*77	Top Corona	100, 300 c.p.	...	"	2 0
*78	Bottom Corona	100, 300 c.p.	...	"	4 0
*81	Tulip	...	...	"	1 6
*84	Inner Reflector	1300 series	...	"	3 6
*88	Outer " "	1300 series	...	"	5 0
*95	Top Cowl	1300 series	...	"	3 0
*96	Bottom Cowl	1300 series	...	"	2 6
*104	Reflector Fastener	1300 series	...	"	0 9
105	Dummy Radiator	1300 series	...	"	1 3
106	" "	1000, 1010 models	...	"	1 3



THE "BLANCHARD"

(PATENT) HIGH-POWER INVERTED

SAFETY INCANDESCENT OIL LAMP.

