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No. 891,268.

PATENTED JUNE 23, 1908.

J. & M. LAWSON.
BURNER FOR OIL LAMPS.
APPLICATION FILED MAR. 16, 1907.

Fig. 1.

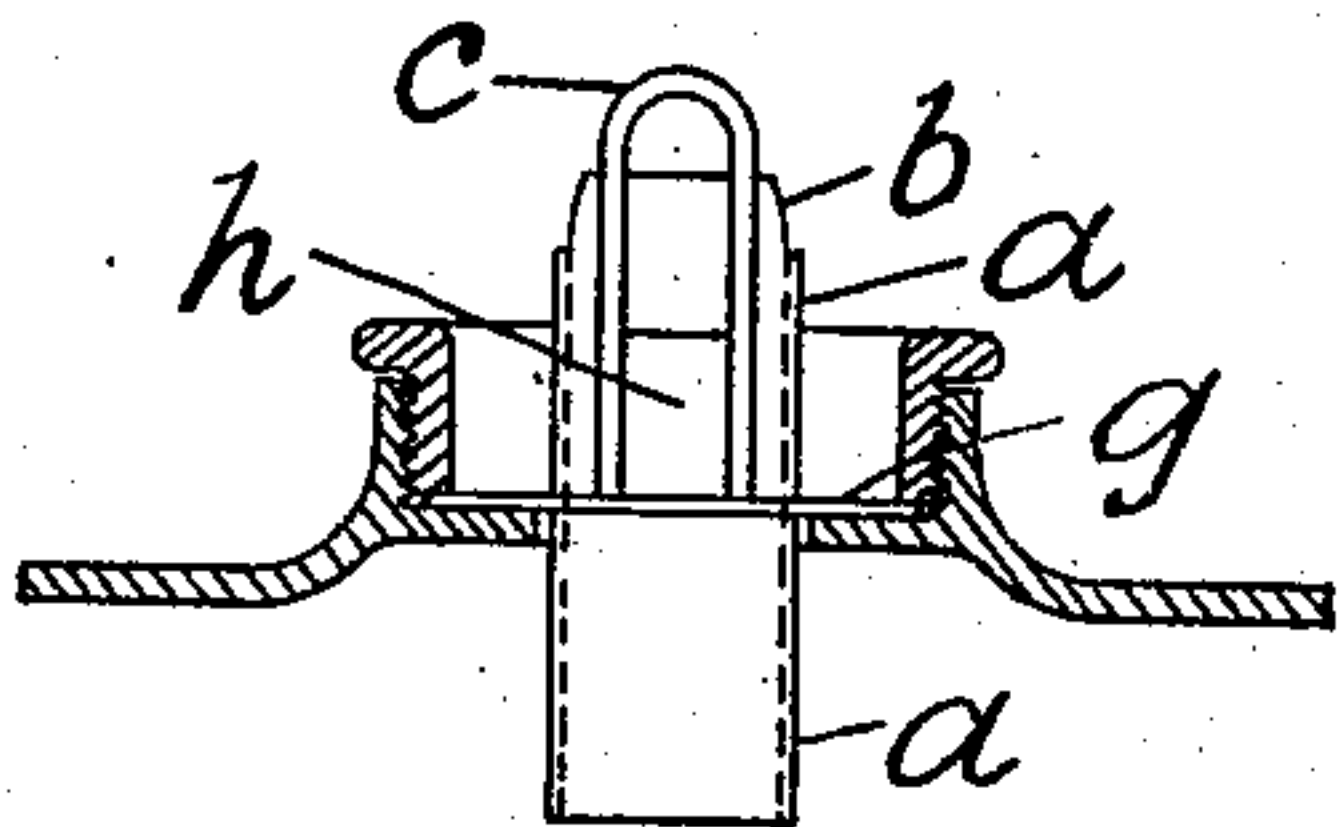


Fig. 2.

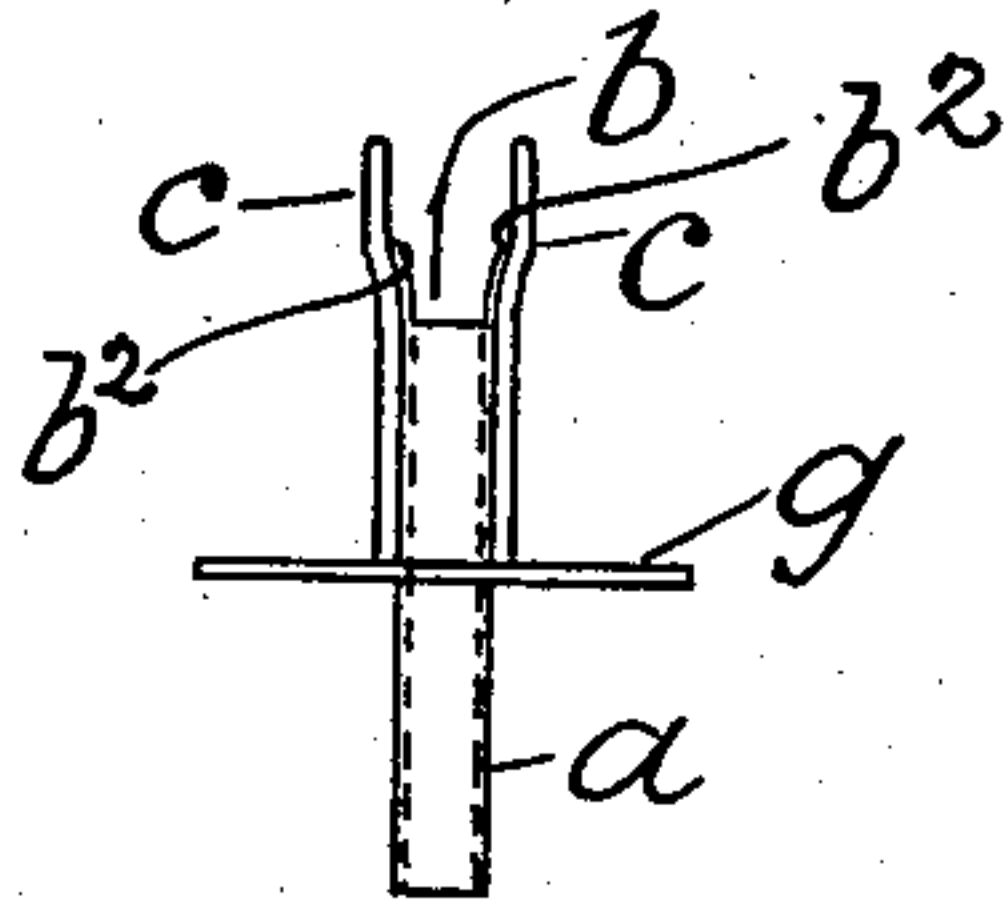
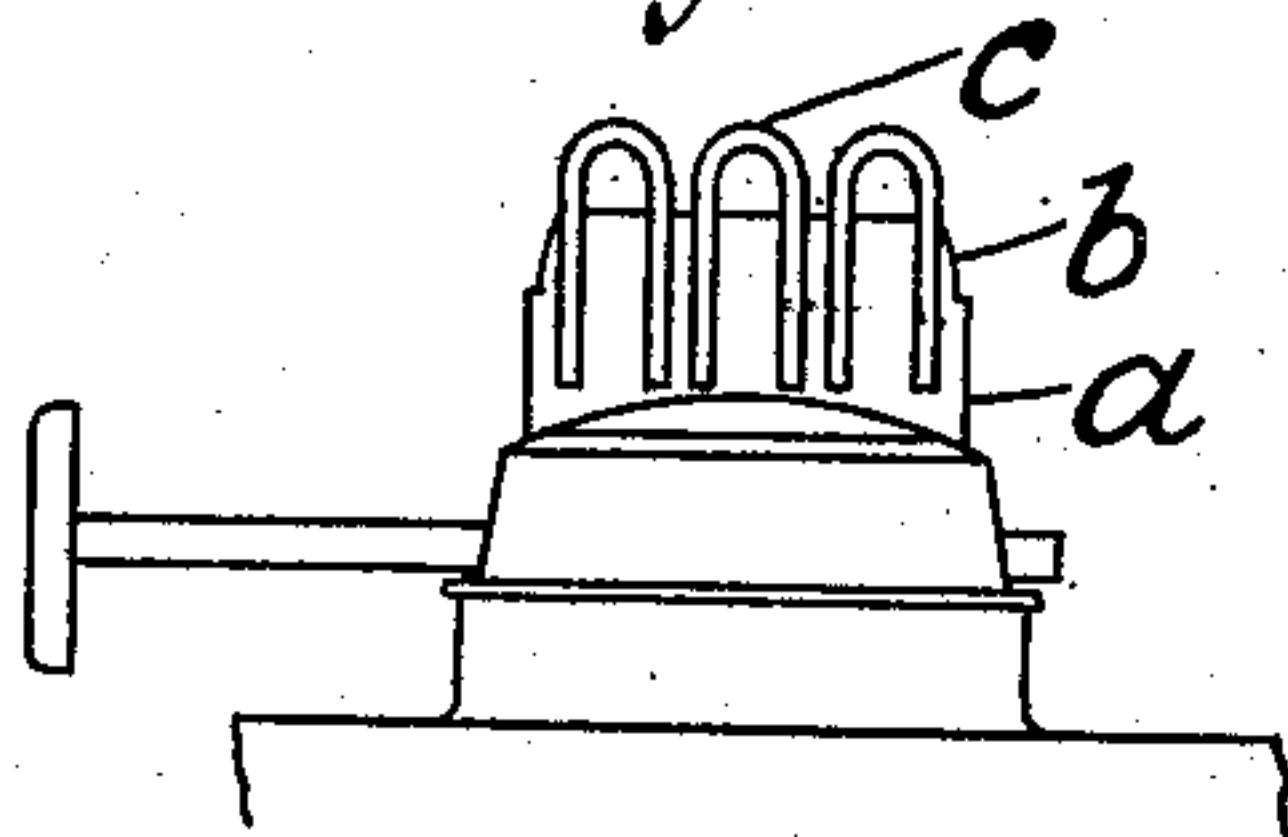


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

JOHN LAWSON AND MATTHEW LAWSON, OF SWALWELL, ENGLAND.

BURNER FOR OIL-LAMPS.

No. 891,268.

Specification of Letters Patent.

Patented June 23, 1908.

Application filed March 16, 1907. Serial No. 362,622.

To all whom it may concern:

Be it known that we, JOHN LAWSON and MATTHEW LAWSON, subjects of the King of England, residing at Marley Hill, Swalwell, in the county of Durham, England, have invented certain new and useful Improvements in Burners for Oil-Lamps, of which the following is a specification.

This invention relates to improvements in burners for lamps burning mineral or other oils and is applicable to all lamps with flat wicks, such as miners' safety lamps, hand lamps, carriage lamps, house lamps and the like, in which at the upper end of the flat wick-tube, the narrow sides are slotted and the broad sides are bent outwardly, and consists in forming such outwardly bent broad sides with a perforated extension or with equivalent attachments designed to admit an additional supply of air to the flame for the purpose of increasing its size and intensity. On the outer face of each broad side of the wick tube one or more bent wires of preferably inverted U form are soldered or otherwise attached, the curved or bent part of the wires extending a certain distance above the upper edge of the wick tube.

The accompanying drawing illustrates a form of the invention, applied to the burner of a miner's safety lamp, Figure 1 being a sectional elevation and Fig. 2 an end view with parts omitted. Fig. 3 is a side view of a modification.

The wick tube *a* carried by the plate *g* is provided at the upper extremity of each of its narrow sides with a slot or opening *b* extending downwards for a certain distance, and has the upper edges of its broad sides bent somewhat outwards as at *b*² Fig. 2,

making the upper ends of the slots wider. To the exterior face of each broad side of the wick tube a wire loop *c* is attached, the upper ends of the loops projecting above the top edge of the wick tube so as to form orifices *c*¹. By this arrangement air can freely pass through the slots *b* and orifices *c*¹ causing a better combustion than hitherto. The wick can be raised in the usual manner for this type of lamp by the insertion of a "picker" in the opening *h* provided for the purpose.

Fig. 3 is an elevation of the burner *a* of a household lamp provided with a plurality of wire loops *c* similarly attached and having slots *b* of the shape and form as in Figs. 1 and 2.

What we claim as our invention and desire to secure by Letters Patent of the United States is:—

In an oil lamp burner the combination with a wick tube having its narrow sides slotted for a portion of their height and its broad sides formed with straight parallel portions and outwardly flared portions of parallel extensions forming continuations of the flared portions of the wick tube and lying in planes parallel to said straight portions thereof said extensions being formed of bent wires and lying in contact with the outwardly flared portions.

In witness whereof we have signed this specification in the presence of two witnesses.

JOHN LAWSON.
MATTHEW LAWSON.

Witnesses:

WILLIAM H. NIXON,
HETHERINGTON NIXON.