(No Model.)

R. A. WENTWORTH.

LAMP BURNER.

No. 481,607. Patented Aug. 30, 1892.

Fig. 1.

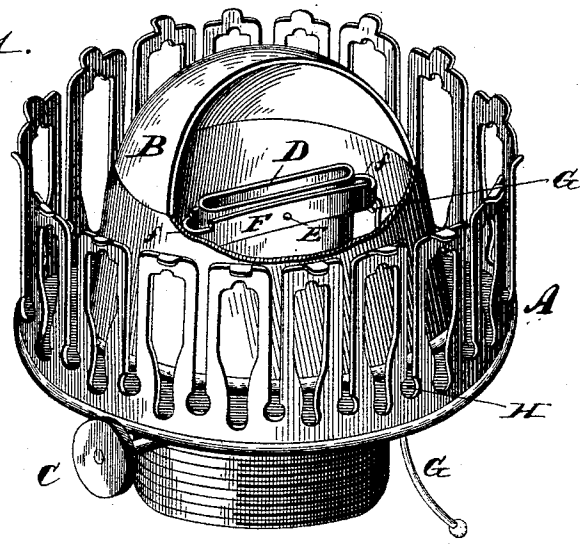


Fig. 2.

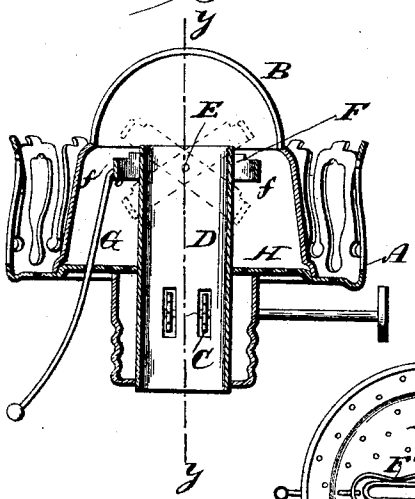
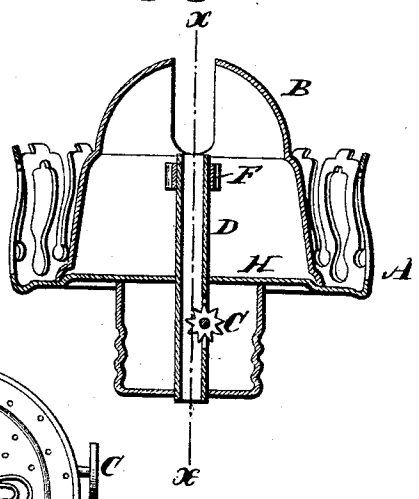


Fig. 3.



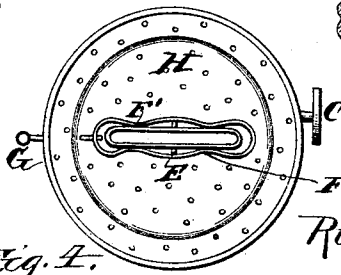


Fig. 4.

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

RICHMOND A. WENTWORTH, OF HOPE, MAINE.

LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 481,607, dated August 30, 1892.

Application filed July 11, 1891. Serial No. 399,167. (No model.)

To all whom it may concern:

Be it known that I, RICHMOND A. WENTWORTH, a citizen of the United States, and a resident of Hope, in the county of Knox and State of Maine, have invented certain new and useful Improvements in Lamp-Burners; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved lamp-burner with part of the hood broken away to show the regulating device. Fig. 2 is a transverse sectional view on line *x x* in Fig. 3. Fig. 3 represents a vertical section on line *y y* in Fig. 2, and Fig. 4 is a plan view of the wick-tube and regulating device.

Like letters of reference denote corresponding parts in all the figures.

This invention relates to devices for regulating lamp-burners so as to cause the flame to burn steadily and evenly at all times; and it consists in the combination with the wick-tube of the burner of a peculiarly constructed pivoted guard or deflector, as will be hereinafter more fully described and claimed.

Referring to the drawings, the letter A designates the gallery or chimney-holder; B, the hood; C, the wick-raiser, and D the wick-tube of a kerosene-burner of the ordinary well-known construction.

The wick-tube is provided, on opposite sides and near its upper end, with small projecting pins E E, upon which the regulator F is pivoted. The latter consists of a piece of sheet-brass or other thin sheet metal, bent so as to form an oblong loop or sleeve fitting over the mouth of the wick-tube and projecting beyond the same at opposite ends, as shown at *f f*. To the under side of one of these projecting ends is hinged a thin rod or wire G, the free end of which projects through one of the air-holes in the bottom plate H, so that it may be readily grasped by the fingers when it is desired to manipulate the regulator.

In order to cause the sides of the regulator F to bind against the sides of the inclosed wick-tube D, so as to maintain it in its properly-adjusted position, its sides are slightly bent or bulged toward each other, as shown more clearly in Fig. 4, thus forming convex friction-contacts or bearings F′ on opposite sides of the pivotal points E, thereby always maintaining the regulator F by friction in any of its adjusted positions, as indicated by dotted lines. It will be noted that the ends of the regulator extend some distance beyond the wick-tube and are cut away or recessed upon their upper sides, as seen at *g*, so as to give greater range of movement to the regulator without the said ends interfering with the wick.

From the foregoing description, taken in connection with the drawings, the operation of this device will readily be understood. When the flame burns even and regular, the regulator is set so that its top will be even and aligned with the top of the wick-tube, as shown in full line on the drawings; but when from any cause the flame burns unevenly and higher at one side of the burner than at the other this may be remedied in a moment of time by adjusting the regulator F by means of the depending wire G, so as to raise it at that end where the flame burns too high until the flame is found to burn even. Some of these adjusted positions are indicated in the drawings by dotted lines.

I am aware that a lamp-burner provided with a regulator consisting of an oblong loop or sleeve pivoted to the wick-tube and having an operating handle is not new, and such is not broadly claimed by me, my invention being limited to the peculiar construction of the regulator.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In a lamp-burner, the combination, with the flat wick-tube D, of the regulator pivoted to said tube, consisting of a sheet-metal sleeve the sides of which are bent outwardly at their centers, forming convex friction-bearings F, and cut away or recessed at the upper edges of the ends, which project some distance beyond the wick-tube, and the depending adjusting-wire, substantially as described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

RICHMOND A. WENTWORTH.

Witnesses:
AMBROSE LENNEKEN,
ADDISON R. DAVIS.