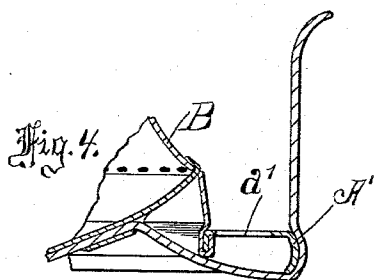
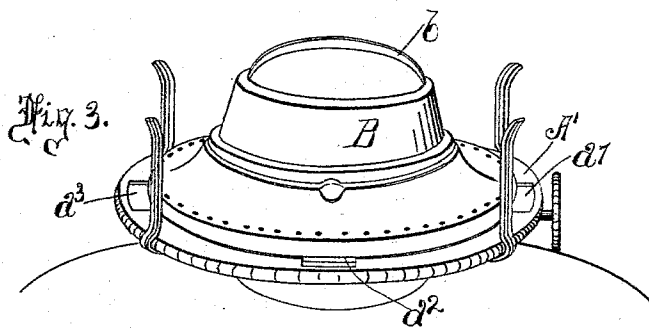
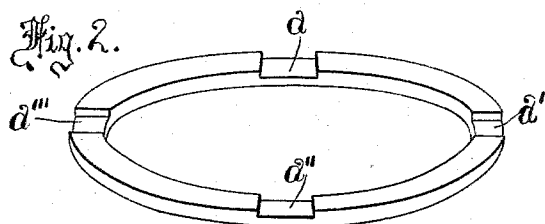
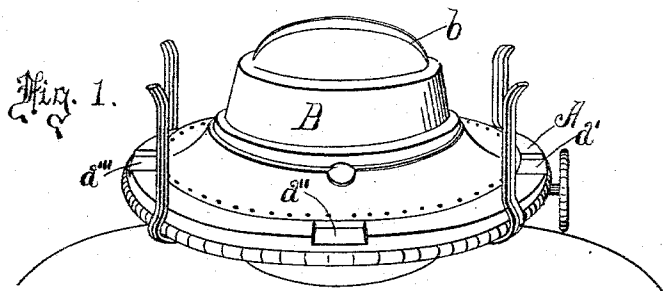


(No Model.)

J. W. LAWSON.
LAMP DRAFT REGULATOR.

No. 511,052.

Patented Dec. 19, 1893.



Witnesses.

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UNITED STATES PATENT OFFICE.

JOHN WALTON LAWSON, OF SAN BERNARDINO COUNTY, CALIFORNIA.

LAMP-DRAFT REGULATOR.

SPECIFICATION forming part of Letters Patent No. 511,052, dated December 19, 1893.

Application filed March 20, 1893. Serial No. 466,810. (No model.)

To all whom it may concern:

Be it known that I, JOHN WALTON LAWSON, a citizen of the United States, residing in San Bernardino county, near Pomona, Los Angeles county, in the State of California, have invented a new and useful Lamp-Draft Regulator, of which the following is a specification.

The object of my invention is to provide means for regulating the draft in lamps so as to thereby control the shape of the flame and by changing the position of the draft openings with relation to the flame openings to be able to regulate the admission of air to the wick so that an even flame can be produced when the wick is unevenly trimmed or when from some other cause an unequal supply of air is presented for combustion at the different parts of the wick and an irregular flame and unequal combustion take place.

My invention consists in a lamp burner having an auxiliary revoluble draft slide provided with a series of draft openings therein to admit air between the chimney and the air deflector of the burner so that by partially rotating the slide the position of the air admitting or draft openings will be changed with relation to the flame opening in the air deflector.

My invention also comprises, as a new article of manufacture, an attachment for lamp-burners consisting in an annular slide or lamp-chimney seating ring provided at intervals with air admitting or draft openings and adapted to be placed upon the lamp-burner and to seat the chimney, and to admit air between the chimney and the air deflector of the burner and to be adjusted, when on the burner, to change the position of the draft openings with relation to the flame opening of the burner.

The accompanying drawings illustrate my invention.

Figure 1 shows a lamp burner provided with my invention in the form of the draft-regulating annular slide or chimney seating ring which is adapted to be placed on any chimney burner and to be removed therefrom at pleasure. Fig. 2 is a perspective view of such annular draft-regulating slide removed from the burner. Fig. 3 is a perspective view of the burner provided with a draft regulating

slide which is combined with and forms a part of the burner. Fig. 4 is a sectional detail of a fragment of the burner shown in Fig. 3 showing the mode of construction. In this view the slide is adjusted with one of its air admitting openings in line with one of the springs of the burner in order that the openings may be shown and that the construction of the burner and the slide may also be shown.

A indicates the annular slide or chimney seating ring shown in Figs. 1 and 2 which is adapted as an attachment for any ordinary lamp burner. It consists of a flat ring A of any suitable material such as some fibrous non-combustible stuff or any other suitable material flexible or non-flexible. *a a' a'' a'''* indicate air admitting openings consisting of notches cut in one face or side of the ring to admit air between the chimney (not shown) and the outside of the air deflector B which surrounds the wick tube.

In practice the ring A is placed upon the burner within the chimney retaining springs as indicated in Fig. 1 with the draft openings set uppermost so that when the chimney is placed in position it will rest upon the ring and air will be admitted beneath the chimney through the openings. If made of non-heat-conducting material the ring will prevent the transmission of heat from the chimney to the burner except that which passes through the springs. When the ring is placed in position and the chimney is in place and the lamp is lighted, the air admitted to the outside of the deflector affects the form of the flame and if the flame burns unevenly the ring may be partially rotated thus admitting the air to the flame at a different part thereof and from different directions, and by properly adjusting the ring the draft can be so admitted to the flame as to cause it to burn evenly.

In the forms shown in Figs. 3 and 4 the ring A' is loosely secured to the burner and forms a revoluble slide at the base of the burner and is not designed to be removed therefrom, and the openings *a', a'', &c.*, consist of perforations through the ring and the ring is secured to the main body of the burner by a suitable construction and arrangement of the parts which are indicated in Fig. 4 and a description of which is not deemed neces-

sary as the same can be varied without departing from the spirit of my invention. *b* indicates the flame opening or slot in the air deflector B.

5 Now, having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

10 1. The lamp burner provided with the revoluble slide having draft openings therein and adapted to admit air between the chimney and the air deflector and adapted to be rotated to change the position of the draft openings with relation to the flame opening of the deflector.

15 2. A draft regulating slide for a lamp burner comprising a chimney-seating ring provided with draft openings and adapted to be placed

upon the burner and adapted to seat the chimney and to allow the passage of air through the draft openings into the space between the chimney and the air deflector, and adapted to be rotated when on the burner to change the position of the draft openings with relation to the flame openings of the burner. 20

3. As a new article of manufacture, a non-heat-conducting lamp-chimney-seating ring provided with draft openings and adapted to be adjusted, when on a lamp burner, to change the position of its draft-openings with relation to the flame-opening of the burner. 25

JOHN WALTON LAWSON.

Witnesses:

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