

(No Model.)

G. T. BROWN.
LAMP BURNER.

No. 576,025.

Patented Jan. 26, 1897.

Fig. 1.

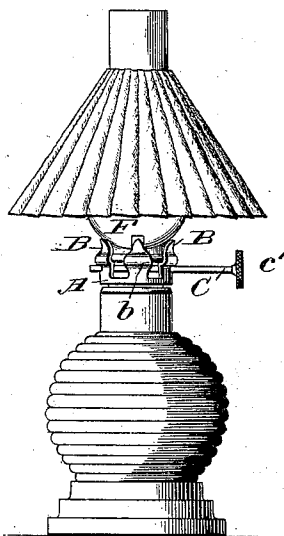


Fig. 2.

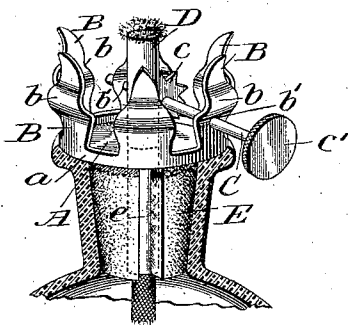


Fig. 3.

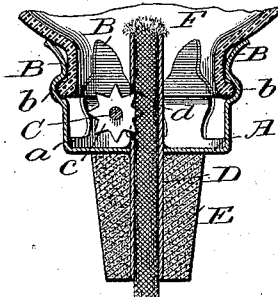


Fig. 4.

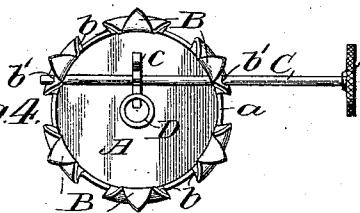
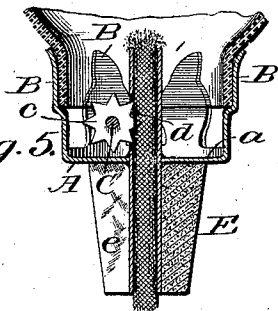


Fig. 5.



WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE TUPPER BROWN, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-HALF TO THE MCCORMICK & COMPANY, OF SAME PLACE.

LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 576,025, dated January 26, 1897.

Application filed October 6, 1896. Serial No. 608,056. (No model.)

To all whom it may concern:

Be it known that I, GEORGE TUPPER BROWN, of Baltimore, in the State of Maryland, have invented certain new and useful
5 Improvements in Lamp-Burners; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

10 This invention is an improvement in burners for lamps; and it consists in a combined lamp-burner, chimney-holder, and wick-raiser combined with a plug attachment of cork or other suitable material adapted to fit
15 in the neck of a bottle or other oil-containing vessel and hold the burner in place instead of the more complicated fastenings commonly used. In my burner the base-plate, the spring prongs or fingers forming the chimney-holder, and the bearings to support and hold the wick-raiser in place are all formed
20 out of one piece of sheet metal by stamping. The wick-holder is a single tube extending perpendicularly through the base-plate, the portion thereof below the base-plate being fitted in the plug. Certain other peculiarities of the device will be hereinafter described, and the drawings illustrate the burner clearly.

Referring to said drawings, Figure 1 is a side view of a lamp having my burner applied. Fig. 2 is a view of the burner detached. Fig. 3 is a vertical section through the burner. Fig. 4 is a plan view. Fig. 5 is a vertical sectional view illustrating a slight modification
35 of the burner.

The circular base-plate A has a shallow flange *a* on its edge, from which flange rises a series of fingers B, which constitute the chimney seat and clamp. Each of said fingers, as
40 shown in Figs. 1 to 4, has a horizontal groove *b* in its inner face about midway of its length, said groove being preferably formed by bending the fingers, as indicated in the drawings, and the upper ends of the fingers are contracted and slightly curved outwardly, as shown. In two of the fingers B are perforations *b'* for the reception of the wick-raiser rod C, which is provided with a serrated wick-raiser *c* and the usual handpiece *c'*. The
45 wick-raiser *c* partially projects into the central wick-tube D and thereby keeps rod C

from slipping longitudinally out of its bearings. The wick-tube is preferably a short piece of round tubing extending through a central opening in the base-plate and fastened thereto by solder. The tube projects
55 about equally above and below the base-plate and has a small opening *d* in its side above the base-plate to allow the wick-raiser to engage the wick. 60

Fitted on the portion of the tube below the base-plate is a plug E, preferably of cork or compressible material, which may be fastened to the tube or base-plate, or both, by suitable cement or otherwise, and is adapted to fit
65 tightly in the neck of an oil-containing vessel, such as a bottle or globe, and thus secure the burner in position. This plug has a vent *e* in its side to allow the escape of air when the burner is fitted to the vessel, and to allow the escape of gases, if any are generated in the vessel, so that the oil will not be forced up
70 the wick-tube in undue quantity.

The grooves *b* in the fingers together constitute an annular chimney-seat adapted to bite the lower edge of the chimney F, which is preferably formed with the flaring lower edge common in old-style chimneys, where a retaining-screw was employed to secure the chimney on the burner. No screws are necessary on my burner, however, for the fingers are made sufficiently resilient to bite the edge of the chimney and hold it in place, the grooves *b* forming both a seat and a clamp
85 for the chimney.

It will be observed that the chimney-seat is slightly above the wick-raiser rod, so that the chimney does not rest upon the rod, but is entirely supported by the fingers, and a space is left between the fingers and below
90 the chimney for the admission of air to support combustion.

In the modification shown in Fig. 5 the fingers are shaped to hold a chimney with a straight vertical flange on its bottom, like the ordinary lamp-chimneys now most generally used. I prefer the other form of chimney, however, as the fingers clamp it in position so that it cannot tilt over or drop off the burner. 100

The extreme simplicity of my invention is one of its chief merits. The base-plate and

5 fingers are formed out of one piece of metal by an economical stamping process. The wick-tube can be rolled or drawn, and the wick-raiser and rod are the simplest obtainable.

It is not upon the small number of parts that I lay stress, but upon the simplicity of their construction and their novel peculiarities.

10 Having thus described my invention, what I therefore claim as new, and desire to secure by Letters Patent thereon, is—

15 1. The herein-described lamp-burner and chimney-holder, consisting of the base-plate provided with upstanding fingers on its periphery bent at a point above the base-plate so as to form both a chimney seat and clamp for supporting and retaining the chimney above the base-plate; combined with a wick-raiser rod journaled in two of the spring-fingers which support the chimney, and the wick-raiser on said rod, substantially as and for the purpose described.

25 2. The herein-described lamp-burner and chimney-holder, consisting of the base-plate provided with upstanding fingers on its periphery bent at a point above the base-plate so as to form both a chimney-seat and clamp for supporting and retaining the chimney above

the base-plate; combined with a wick-raiser 30 rod journaled in two of the spring-fingers which support the chimney, and the wick-raiser on said rod; and a plug surrounding the wick-tube below the base-plate, adapted to fit into the neck of a bottle or other oil-receptacle and secure the burner thereto, all 35 substantially as and for the purposes set forth.

3. The herein-described lamp-burner consisting of a base-plate having an annular flange on its periphery and spring-fingers rising from said flange bent as at *b* to constitute 40 a chimney seat and clamp substantially as described; a wick-tube extending through and secured to the base-plate, a wick-raiser rod journaled in two of the spring-fingers 45 which support the chimney, and the wick-raiser on the rod substantially as described; with the plug surrounding the portion of the wick-tube below the base-plate, having a venting-groove in its side, all substantially 50 as and for the purpose described.

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

GEORGE TUPPER BROWN.

Witnesses:

WILLIE LEE BEAN,
R. M. BOOKER, Jr.