

(No Model.)

T. HIPWELL.
LAMP BURNER.

No. 308,770.

Patented Dec. 2, 1884.

Fig. 1.

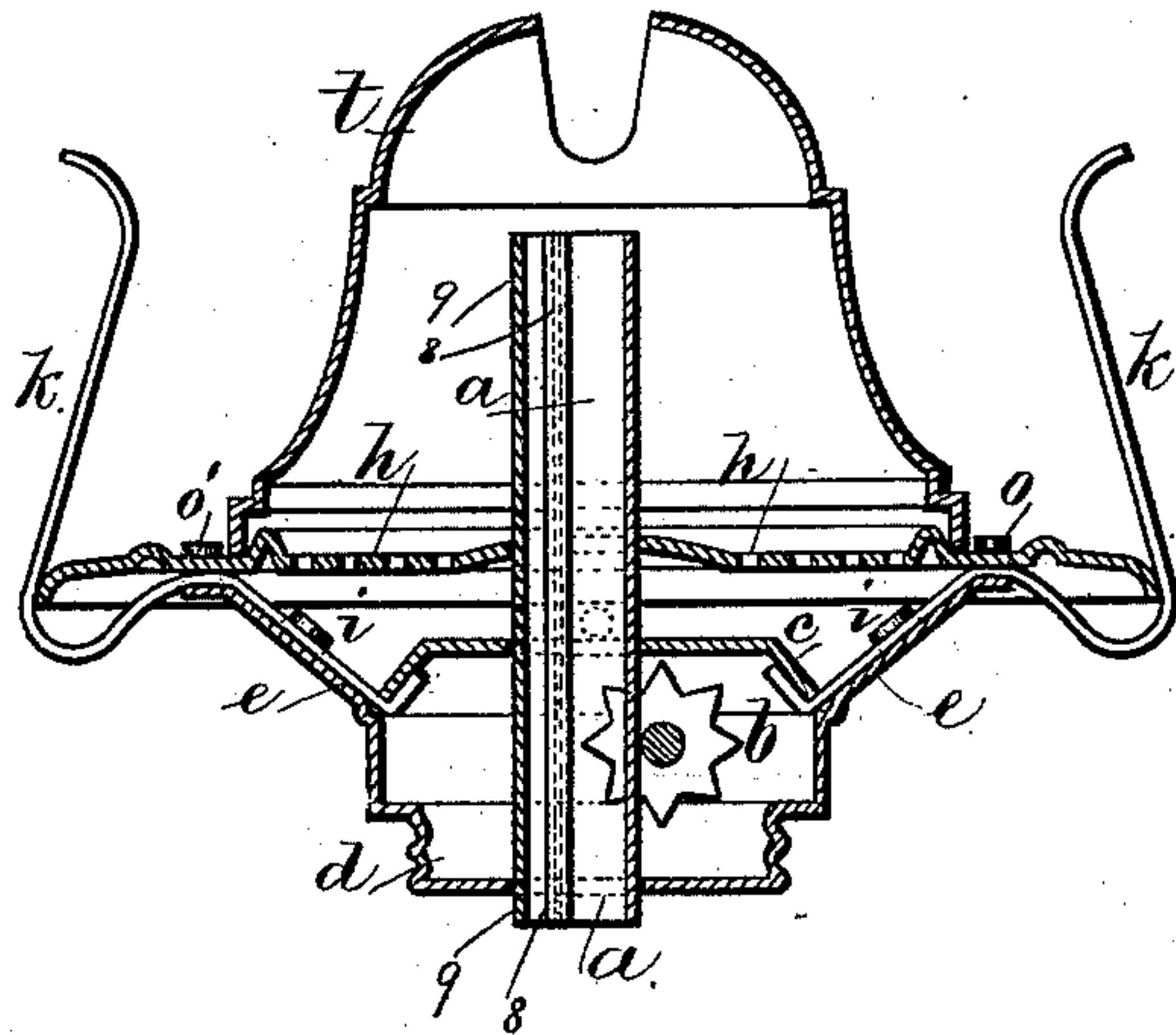
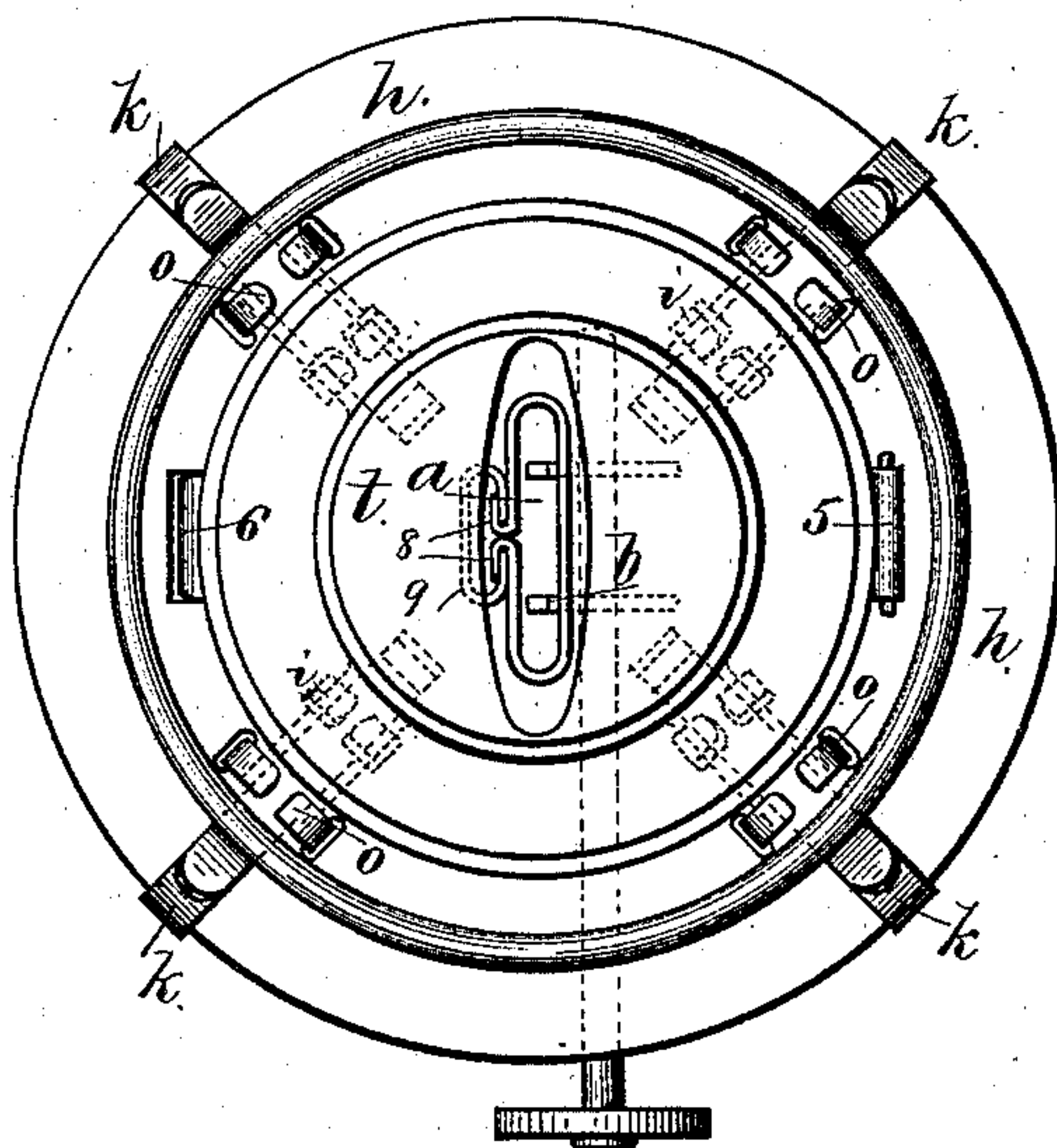


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

THOMAS HIPWELL, OF ASTORIA, ASSIGNOR TO THE MANHATTAN BRASS COMPANY, OF NEW YORK, N. Y.

LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 308,770, dated December 2, 1884.

Application filed December 29, 1883. (No model.)

To all whom it may concern:

Be it known that I, THOMAS HIPWELL, of Astoria, in the county of Queens and State of New York, have invented a new and useful
5 Improvement in Lamp-Burners, of which the following is a specification.

This invention is designed as an improvement upon the device secured to me by Letters Patent granted August 14, 1883, No. 283,108.

10 My present improvement is for securing the chimney-springs to the base of the burner in a more reliable manner than in the burners heretofore made. From the base of the lamp-burner arms extend outwardly, each having
15 two sets of clamping-lips. The first set hold the inner ends of the chimney-springs, and the second set unite the arms to the air-distributor, and at the same time clamp and hold the chimney-springs in place. The lower ends
20 of the chimney-springs pass through the ratchet-cap or metal shell of the burner-base, and are turned up inside, and thus secured. They are not liable to be pulled out in use, and they also add to the strength of the arms.
25 This construction insures great firmness in the chimney-spring, and allows for the spring being of a different metal from the arms, and lessens the cost of construction.

30 In the drawings, Figure 1 is a vertical section of the lamp-burner at the arms, and Fig. 2 is a plan of the same.

The wick-tube *a*, wick-raiser *b*, and ratchet-cap *c* are of ordinary construction, and the screw-base *d* is adapted to fit the collar on the lamp. The arms *e e* extend from the upper
35 edges of the base *d*, being formed of the same metal, and on the edges of these arms there are two sets of clamping lips or projections, *i i* and *o o*. The chimney-springs *k* are formed of wire
40 or metal strips and of the proper stiffness. These springs are bent in the shape shown in Fig. 1, so that they pass around and below the edges of the air-distributor *h*, and in between the same and the arms *e*, and said

springs *k* are continued down parallel with 45 the arms *e*, and their ends pass through the metal shell of the ratchet-cap *c*, and are turned up inside, as shown, so that they cannot be pulled out after being secured in place. The lips *i i o o* are cut out of the flat sheet metal 50 forming the arms, as set forth in Letters Patent heretofore mentioned. These lips are bent up vertically, and the chimney-springs are then placed between them, and the lips *i i* are turned over to clamp and hold the inner ends 55 of such chimney-springs. The ratchet-cap *c* is then introduced and secured in place. The air-distributor is then put on, there being mortises through it at the places where the lips *o o* come, so that said lips pass up through 60 such mortises, and they are turned over or clinched, and they secure the air-distributor firmly in place at the same time that they clamp and hold the chimney-springs between the arms and the under side of the air-dis- 65 tributer. The chimney is to rest upon the outer edge of the air-distributor, and said air-distributor is stiffened, as in aforesaid patent. The cone or deflector *t* is of ordinary description, and hinges at 5 to the air-distributor, and 70 is caught at the opposite side by a tongue, 6, passing through a hole in the air-distributor.

I claim as my invention—

In a lamp-burner, the combination, with the wick-tube, air-distributor, and base provided 75 with outwardly-projecting arms *e*, of chimney-springs *k*, secured between the arms *e* and air-distributor by lips *o o*, and secured immediately by lips *i i*, and whose ends pass through the metal shell of the ratchet-cap and are 80 turned up inside, substantially as set forth.

Signed by me this 21st day of December, A. D. 1883.

THOMAS HIPWELL.

Witnesses:

JOHN E. DOOLEY,
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