(No Model.)

T. HIPWELL.

LAMP BURNER.

No. 283,108. Patented Aug. 14, 1883.

Fig. 1.

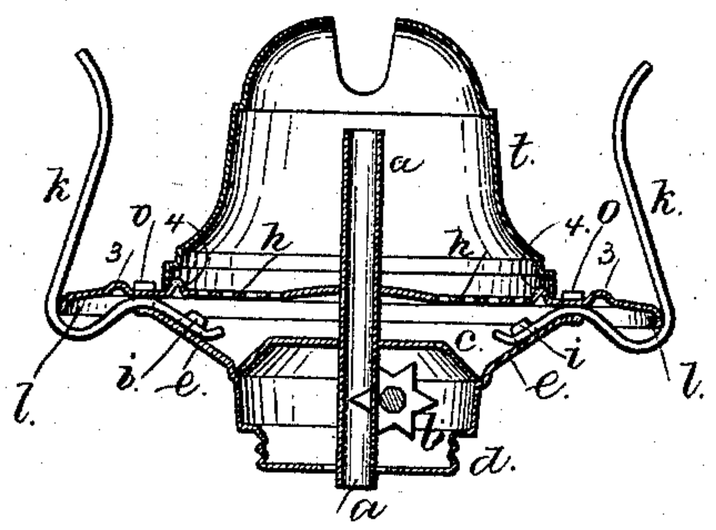


Fig. 2

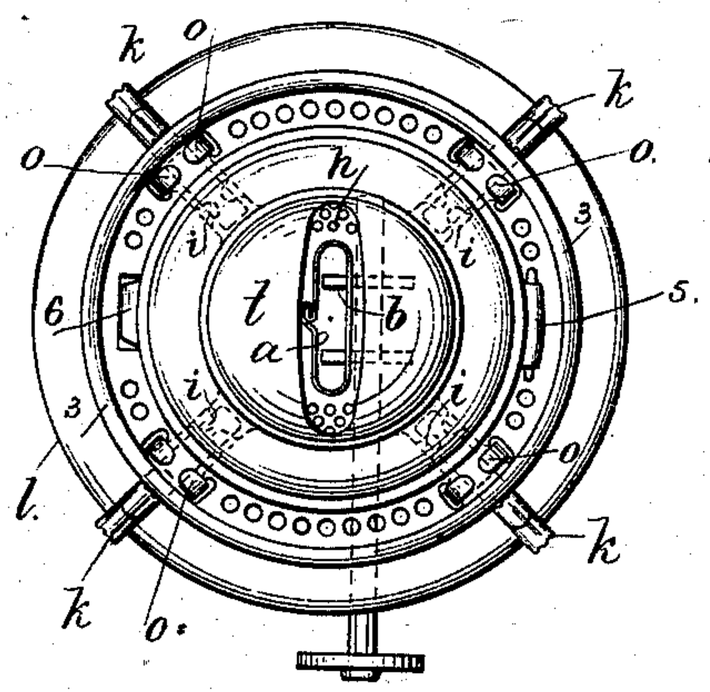
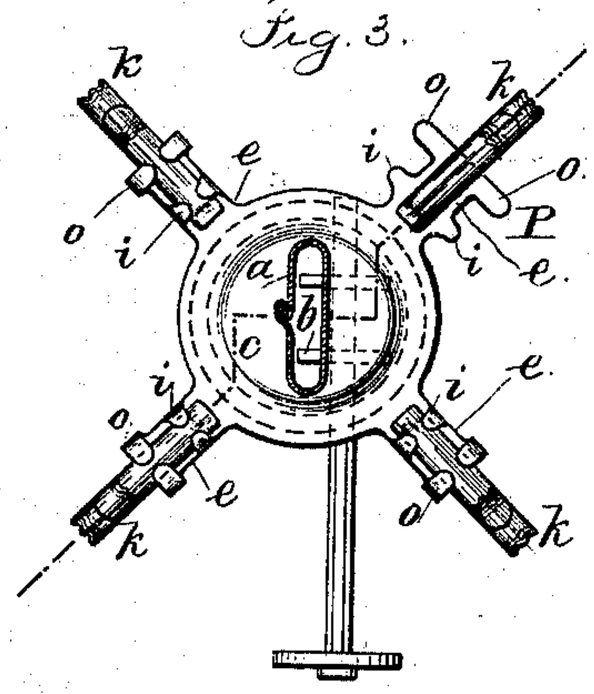


Fig. 3.



Witnesses:
J. Stair
Chas. H. Smith

Inventor
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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. 283,108, dated August 14, 1883.

Application filed February 19, 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 an Improvement in Lamp-Burners, of which the following is a specification.

My improvement is for securing the chimney-springs and the air-distributer 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 two sets of clamping-lips. The first set hold the inner lower ends of the chimney-springs, and the second set unite the arms to the air-distributer, and at the same time clamp and hold the chimney-springs in place. This construction insures great firmness in the chimney-springs, and allows for the springs being of a different metal from the arms, and lessens the cost of construction.

In the drawings, Figure 1 is a vertical section of the lamp-burner at the arms. Fig. 2 is a plan of the same, and Fig. 3 is a plan below the air-distributer.

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 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 or metal strips, and of the proper stiffness. These springs are bent in the shape represented in Fig. 1, so that they pass around and below the edges of the air-distributer *h* and in between the same and the arms *e*, and the inner ends of these springs are bent up, so that they cannot be pulled out after being secured in place. The shapes of the lips *i i o o*, as cut out of the flat sheet metal forming the arms, are represented at P, Fig. 3. 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 of such chimney-springs. The air-distributer is then put in place, there being mortises through it at the places where the lips *o o* come, so that said lips pass up through such mortises, and they are then turned over or clinched, and they secure the air-distributer 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-distributer. The chimney is to rest upon the outer part of the air-distributer, and the edges of the air-distributer are turned down at *l* to stiffen the same, and there are two circular ribs, 3 and 4, which also stiffen the metal. The inner one of these ribs serves as a guide to the base of the cone or deflector *t*, which is of ordinary construction, and it is hinged at 5 to the air-distributer, and provided with a tongue, 6, at the opposite edge, passing through a hole in the air-distributer.

I claim as my invention—

In combination with the wick-tube, air-distributer, and chimney-springs, the base *d*, having arms *e*, that extend outwardly beneath the air-distributer, the lips *i i* upon the edges of the arms that are turned over to hold the inner ends of the chimney-springs, and the lips *o o* upon each arm *e*, which receive between them the chimney-spring, and pass through mortises in the air-distributer and are clinched, so as to confine the chimney-springs against the under side of the air-distributer and connect the base and air-distributer, substantially as specified.

Signed by me this 8th day of February, A. D. 1883.

THOMAS HIPWELL.

Witnesses:
JOHN E. DOOLEY,
R. TURNER.