

(No Model.)

T. HIPWELL.
Lamp Burner.

No. 239,383.

Patented March 29, 1881.

Fig. 1.

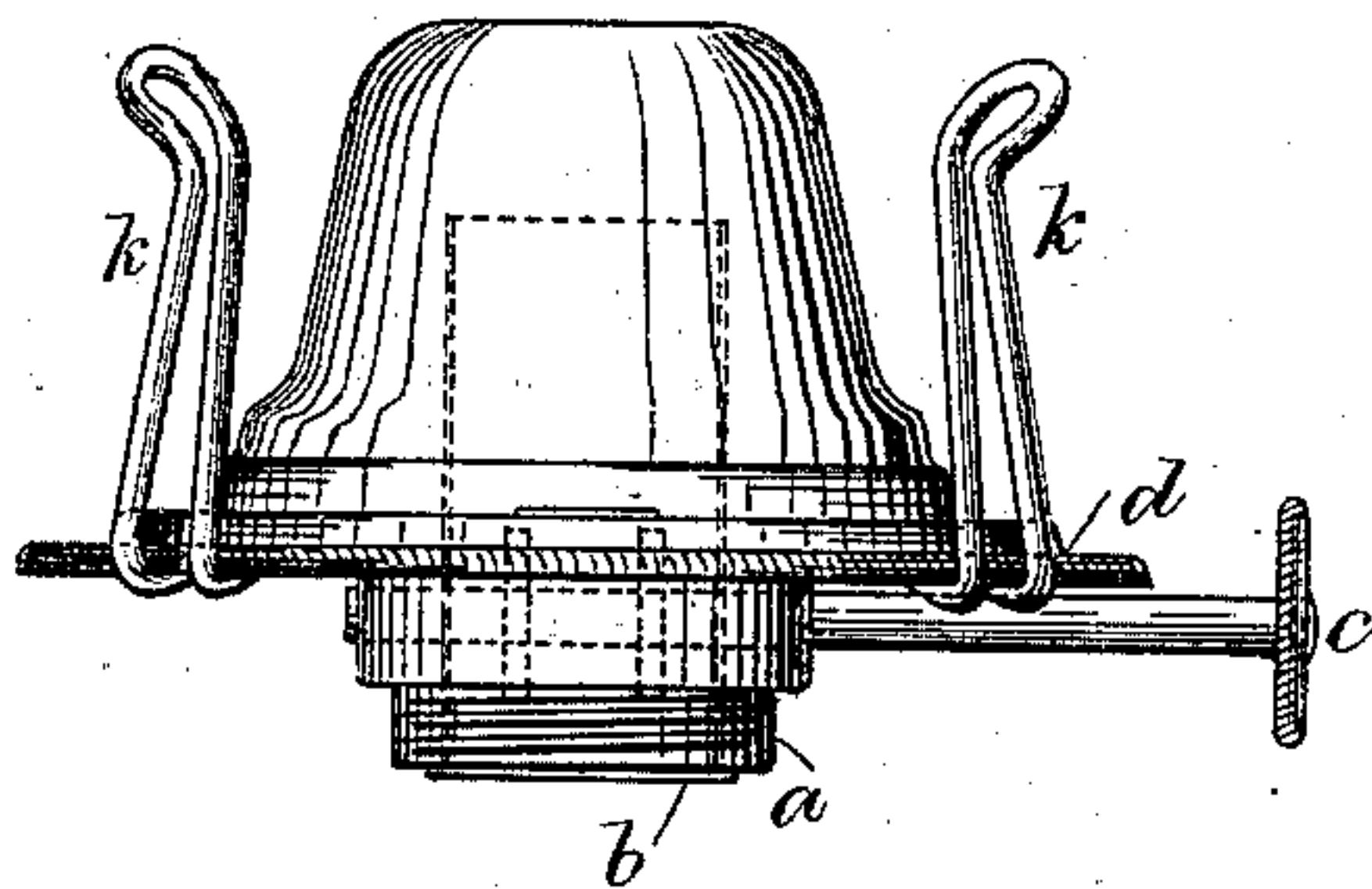


Fig. 2.

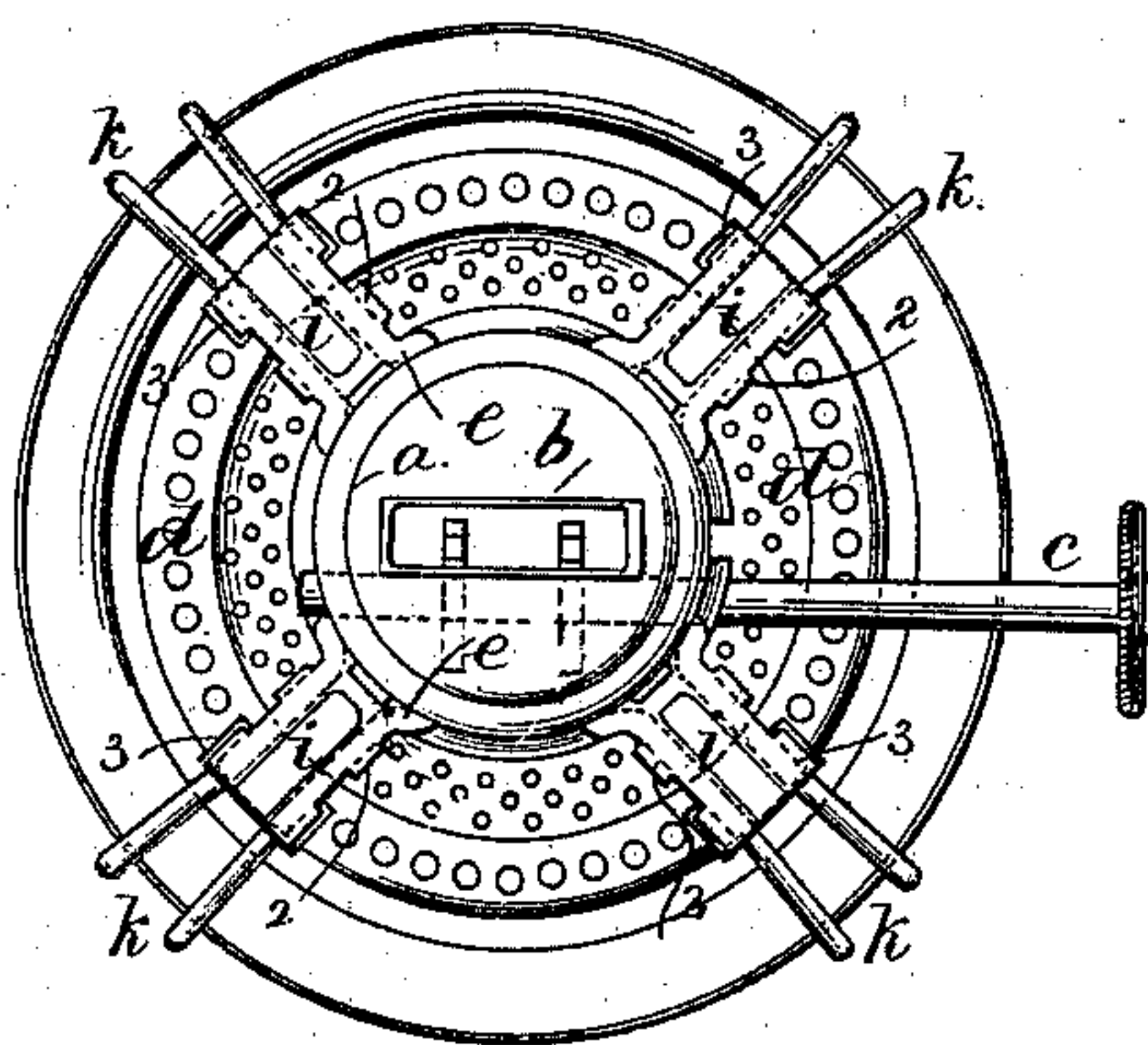


Fig. 5.

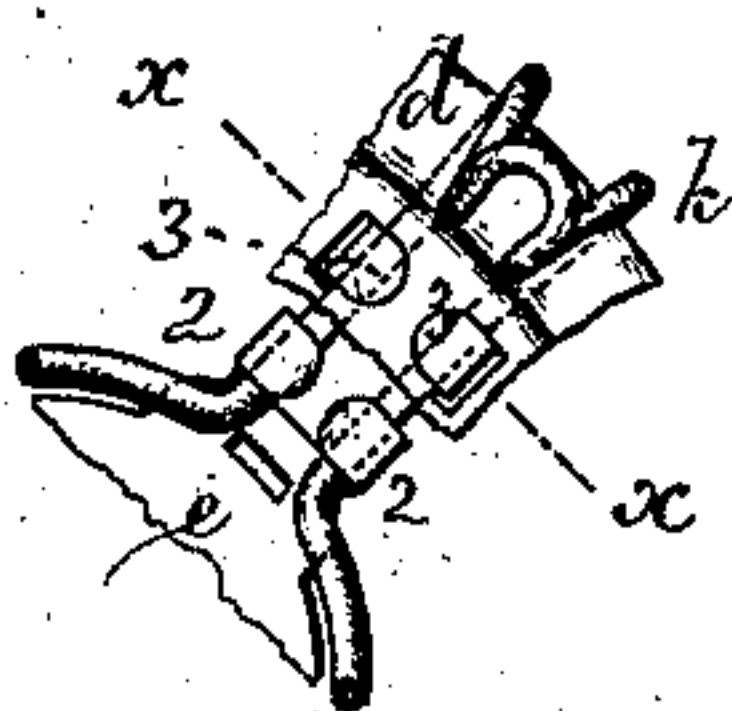


Fig. 6.

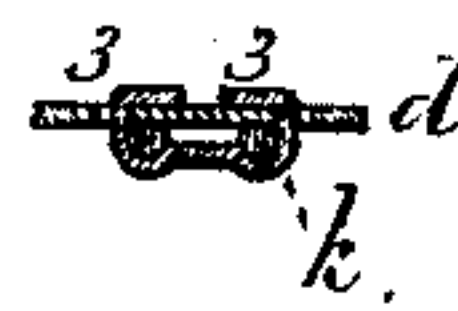


Fig. 3.

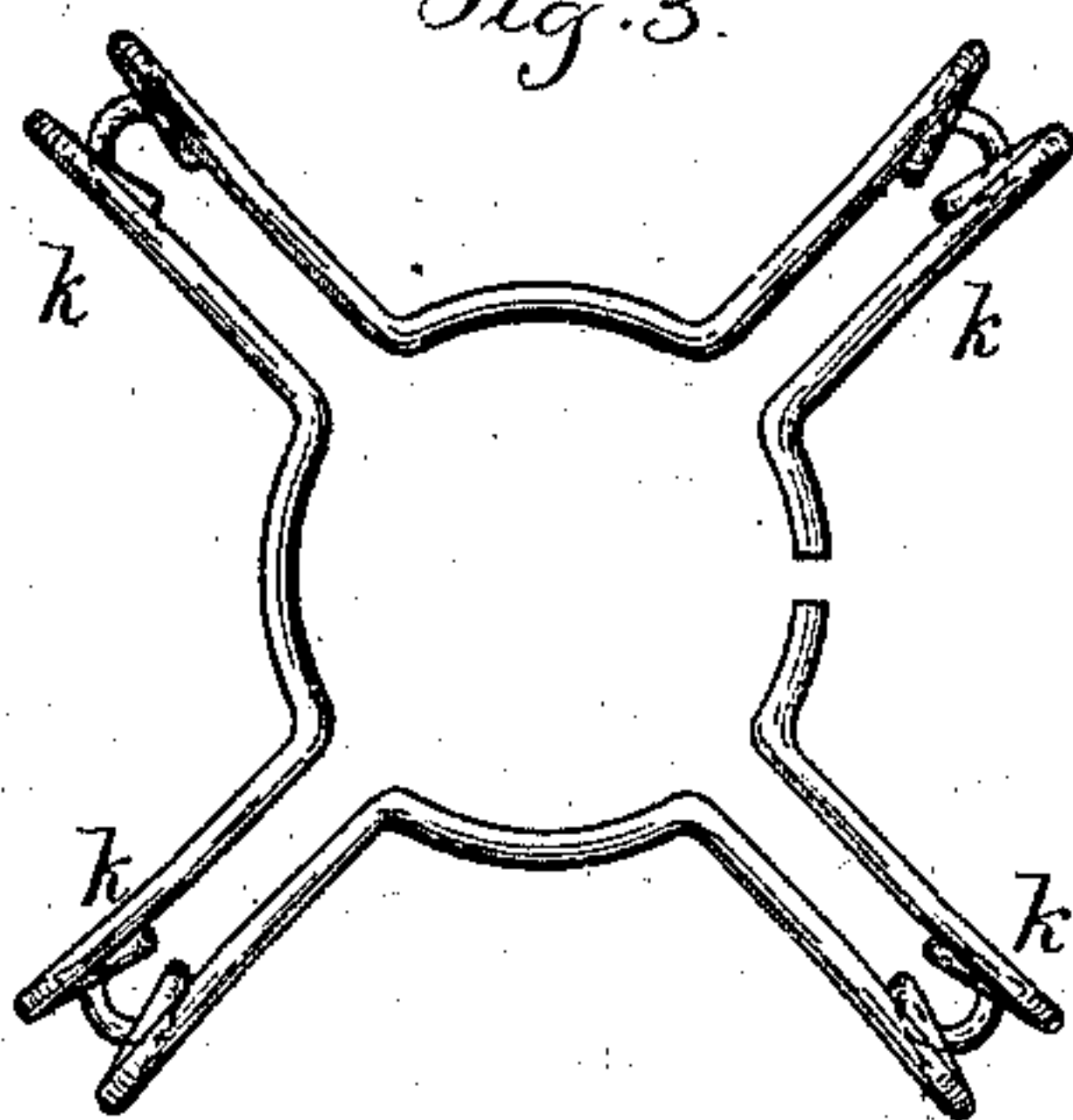
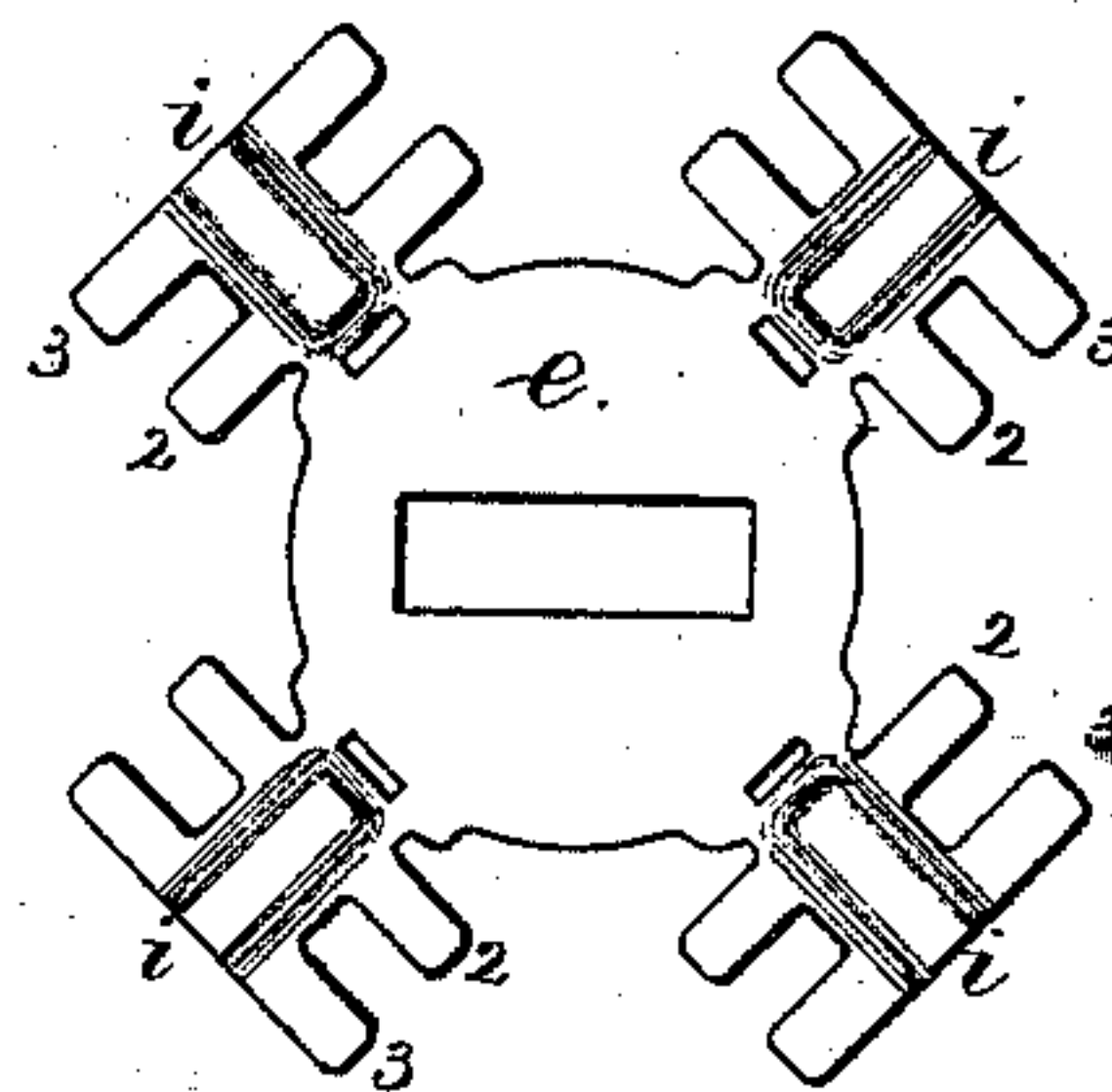


Fig. 4.



Witnesses

Charles H. Smith
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Inventor

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att'y

UNITED STATES PATENT OFFICE.

THOMAS HIPWELL, OF NEW BRUNSWICK, N. J., ASSIGNOR TO MANHATTAN
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LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 239,383, dated March 29, 1881.

Application filed December 24, 1880. (No model.)

To all whom it may concern:

Be it known that I, THOMAS HIPWELL, of New Brunswick, in the State of New Jersey, have invented an Improvement in Lamp-Burners, of which the following is a specification.

Lamp-burners have been made with projecting strips of metal bent upwardly to form chimney-holding springs, and in some cases the chimney-holding springs have been of wire, the inner ends of which pass into the ratchet-cap and are soldered.

My invention is made for securing the wires of the chimney-springs in a more firm and reliable manner than heretofore. The wires are received into channels made for them in the ratchet-cap plate, and there are ears upon the sheet metal that fold over to hold the wires, and other ears that inclose the wires and also pass up through mortises in the air-distributor, thereby connecting the ratchet-cap to the air-distributor, and at the same time holding the wire chimney-springs firmly in place. By this construction the wires of the chimney-springs are not softened by heat in any soldering operation such as heretofore employed; the springs are supported by the sheet metal of the burner, and they are free to spring when the chimney is introduced between the springs or withdrawn therefrom.

In the drawings, Figure 1 is a side view of the burner. Fig. 2 is an inverted plan. Fig. 3 is an inverted plan of the chimney-springs separately, and Fig. 4 is a plan of the plate that forms the ratchet-cap and holds the springs. Fig. 5 is a plan view of one of the chimney-springs and part of the chimney-rest and part of the arm and ratchet-cap, and Fig. 6 is a section at the line *xx* of Fig. 5.

The screw-base *a*, wick-tube *b*, wick-raiser *c*, and air-distributor *d* are of the usual character, except as hereinafter pointed out.

The plate *e* forms a cover to the base *a* and corresponds to the device usually called the "ratchet-cap," but there are arms *i* projecting from the edges thereof. These parts are made so as to receive the wires of the chimney-holding springs *k*, which wires are laid into grooves or channels stamped in the upper surface of the sheet-metal plate *a*, and there are ears 2 2, that are folded over to confine the wires *k* near their inner ends, and the edges of the plate *e* may be turned down to connect the plate *e* to the screw-base *a* of the burner.

The air-distributor *d* is made with mortises through it, and the ears 3 3, at the ends of the arms *i*, are passed up through these mortises and turned over, so as to accomplish the twofold object of more firmly holding the wires of the chimney-springs and of connecting the ratchet-cap to the air-distributor.

If desired, the chimney-holding springs may be all formed of one piece of wire, the same being bent double for each spring, as shown, and extending around the edge of the base from one spring to the next, or the springs may be separate, each being formed of a piece of bent wire.

I claim as my invention—

The plate *e*, forming the ratchet-cap and provided with projecting arms *i*, having ears 2 and 3, in combination with the wire chimney-holding springs and the air-distributor, having mortises for the ears 3, substantially as and for the purposes set forth.

Signed by me this 18th day of December, A. D. 1880.

THOMAS HIPWELL.

Witnesses:

R. TURNER,
THOS. M. HADLEY.