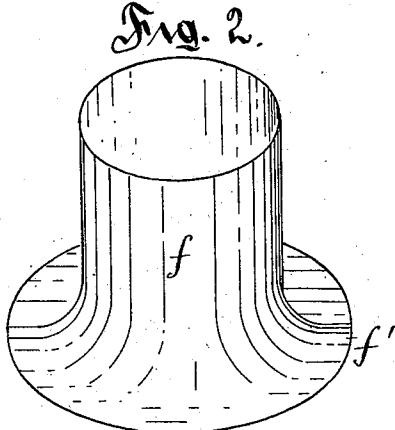
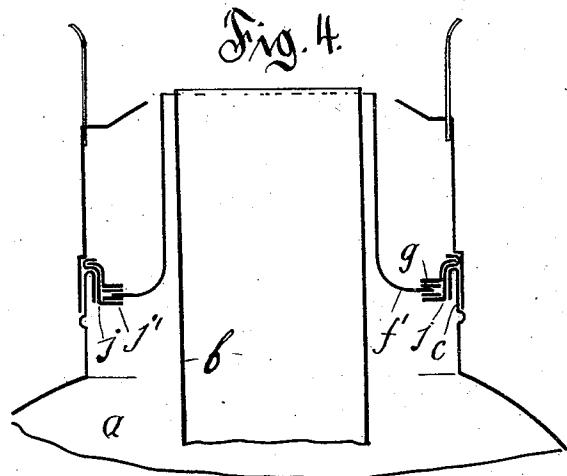
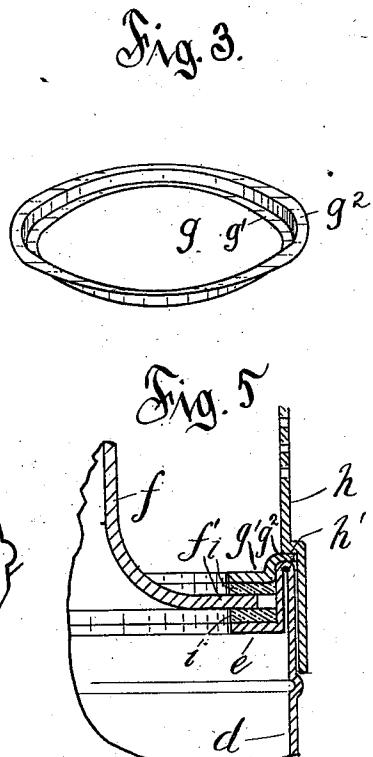
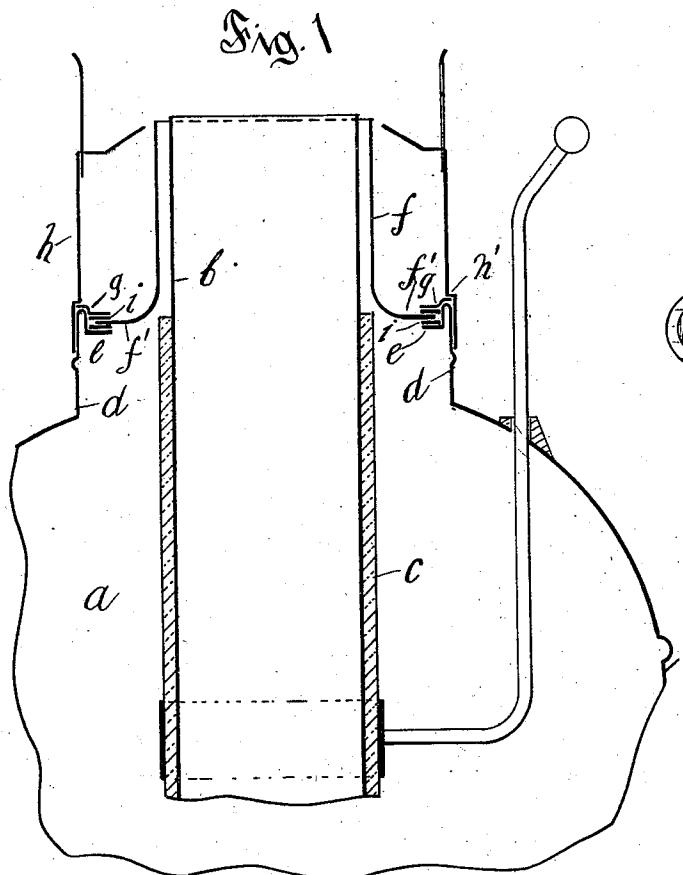


(No Model.)

W. M. HOERLE.
LAMP.

No. 557,270.

Patented Mar. 31, 1896.



Witnesses.

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UNITED STATES PATENT OFFICE.

WILLIAM M. HOERLE, OF PORT CHESTER, NEW YORK, ASSIGNOR TO THE PITTSBURGH BRASS COMPANY, OF PITTSBURG, PENNSYLVANIA.

LAMP.

SPECIFICATION forming part of Letters Patent No. 557,270, dated March 31, 1896.

Application filed June 21, 1895. Serial No. 553,509. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. HOERLE, machinist, a resident of Port Chester, in the county of Westchester and State of New York, 5 have invented a new and useful Improvement in Lamps; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to lamps, and more especially to what are generally termed "central-draft" lamps.

The objects of my invention are to prevent the pinching of the wick due to the displacement of the wick-tube, and the consequent annoyance resulting therefrom; to permit of the rotation of the outer wick-tube as the wick is raised, and to prevent the conduction of heat from the outer wick-tube to the fount.

To enable others skilled in the art to make 20 and use my invention, I will describe the same with reference to the accompanying drawings, in which—

Figure 1 is a vertical section of a lamp embodying my invention. Fig. 2 is a perspective view of the outer wick-tube. Fig. 3 is a like view of the locking-ring. Fig. 4 is a modified form of my invention. Fig. 5 is a detail view.

Like letters indicate like parts in each of 30 the figures.

The lamp illustrated is a common form of central-draft lamp, in which *a* represents the fount and *b* the inner wick-tube, which is secured to the bottom of said fount in the ordinary way, and which is provided with air-openings at the lower end for the air supply. The wick *c* surrounds the inner wick-tube *b*, and a suitable wick-raising device may be employed for raising said wick. The mouth 35 of the fount *a* is surrounded with the collar *d*, which may be permanently secured thereto in the ordinary manner. The collar *d* has the inwardly-projecting flange or ledge *e*, and on said ledge rests the flaring end *f'* of the outer

40 wick-tube *f*. The flaring end *f'* of the outer wick-tube *f* does not cover the entire surface of the inwardly-projecting flange or ledge *e* of the collar *d*, in order to permit of a certain amount of play or lateral movement on the 45 part of said outer wick-tube *f*. In order to retain the outer wick-tube *f* in position and

5 prevent vertical movement of same, I employ the retaining-ring *g*, said ring having the inwardly-projecting flange *g'* and the outwardly-projecting lip *g''*, which rests on the upper edge of the collar *d*. The chimney-gallery *h* engages with the outer face of the collar *d* by means of the ordinary bayonet-joint or otherwise. The gallery *h* has the shoulder *h'*, which rests on the lip *g''* of the ring *g* and holds said ring in place. There is enough space between the outwardly-flaring end *f'* of the tube *f* and the flange *g'* of the ring *g* to permit of the free lateral movement of the tube *f*. At the same time the tube is free to rotate without ascending. By simply releasing the gallery *h* the outer wick-tube *b* can be lifted and removed.

I prefer to interpose rings or washers *i* of asbestos or other non-conductor of heat between the inwardly-projecting flange *e* and the flaring end *f'* of the tube *f* and between said flaring end and the flange *g'* of the retaining-ring *g*. By this construction the heat of the wick-tube, which of necessity is often 75 very hot, is not communicated to the fount to any great degree.

By the above construction in case the inner wick-tube *b* is forced slightly to one side by an accidental blow as the wick is raised 80 it is obvious that the outer wick-tube *f* will be thrown to one side to allow for the displacement of the inner wick-tube, whereby the pinching of the wick between the inner and outer wick-tubes is obviated. The wick 85 can be raised evenly, and a steady and odorless flame is always insured. In case the wick sticks to the outer tube when the wick is raised by a rotary movement the tube *b*, being free to rotate, permits of the raising of 90 the wick without difficulty. After the wick has been in use for some time it is liable to adhere to the tubes at its upper end, and if both tubes are rigid there is nothing to relieve the wick as it is turned.

In Fig. 4 I have illustrated another form of my invention, in which a removable collar *j*, having an inwardly-projecting flange *j'*, is adapted to engage by screw-threads or otherwise with the collar *c* permanently secured 100 to the fount *a*. In this case the outer wick-tube has its flared end *f'* resting on the flange

j' of the removable collar *j*, and said outer wick-tube *f* is held in position by the locking-ring *g*, which is secured to the collar *j*.

What I claim as my invention, and desire 5 to secure by Letters Patent, is—

1. In a central-draft lamp, a laterally-movable outer wick-tube, said tube being adapted to move equally throughout its entire length, substantially as set forth.
- 10 2. In a central-draft lamp, the combination with a collar having an inwardly-projecting flange, an outer wick-tube resting on said flange and laterally movable thereon, substantially as set forth.
- 15 3. In a central-draft lamp, the combination with a collar having an inwardly-projecting flange, of an outer wick-tube having an outwardly-flaring end resting on said flange, and a retaining-ring for holding said outer wick-20 tube in place, substantially as set forth.
- 20 4. In a central-draft lamp, the combination with a collar having an inwardly-projecting flange, a non-conducting covering on said flange, an outer wick-tube having an out-

wardly-extending flange resting on said flange, a non-conducting covering on said outwardly-extending flange, and a retaining-ring above said last-mentioned non-conducting covering, substantially as set forth.

5. In a central-draft lamp, the combination 30 with a collar having an inwardly-projecting flange, a non-conducting covering on said flange, an outer wick-tube having an outwardly-extending flange resting on said first-mentioned flange, substantially as set forth. 35

6. In a central-draft lamp, the combination with a collar having an inwardly-projecting flange, an outer wick-tube having an outwardly-extending flange resting on said first-mentioned flange; a non-conducting covering 40 on said wick-tube flange, and a retaining-ring above said covering, substantially as set forth.

In testimony whereof I, the said WILLIAM M. HOERLE, have hereunto set my hand.

WILLIAM M. HOERLE.

Witnesses:

EDWIN C. BANKS,
JOHN E. HANLEY.