

A. E. SHAW.
 INVERTED INCANDESCENT GAS LIGHT.
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957,445.

Patented May 10, 1910.

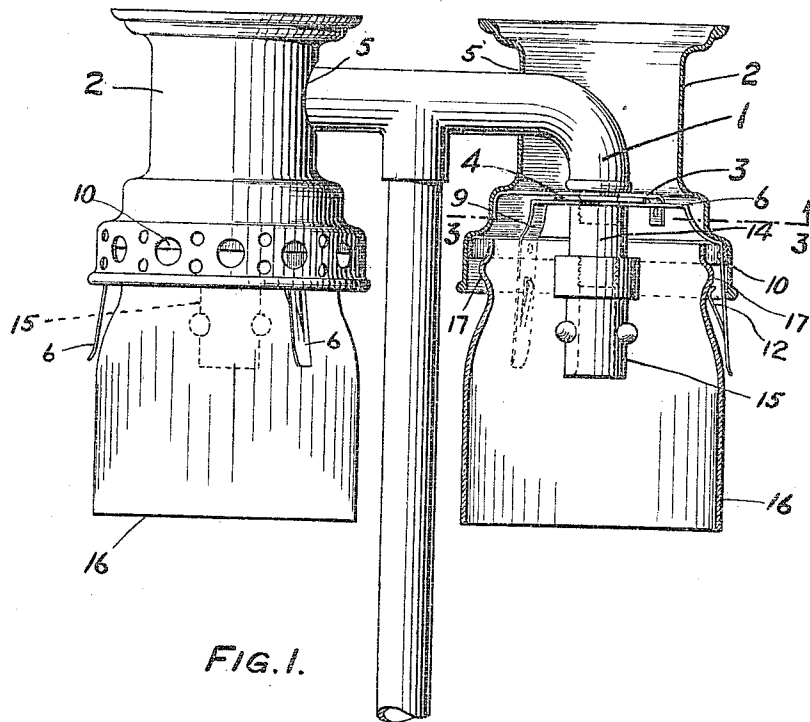


FIG. 1.

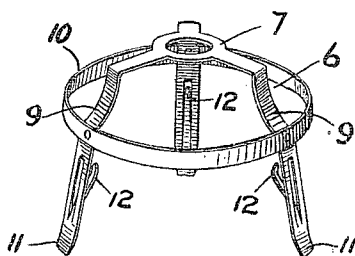


FIG. 2.

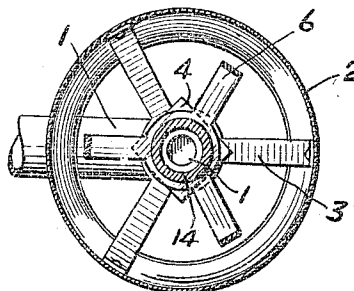


FIG. 3.

WITNESSES:

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INVERTED INCANDESCENT GAS-LIGHT.

957,445.

Specification of Letters Patent.

Patented May 10, 1910.

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To all whom it may concern:

Be it known that I, ARTHUR E. SHAW, a citizen of the United States, and a resident of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Inverted Incandescent Gas-Lights, of which the following is a specification.

The principal object of the present invention is to provide simple, efficient and comparatively inexpensive means for supporting from the burner tube the burner and chimney in such a way that the various parts may be readily assembled and in such a way that the glass part of the chimney can be easily detached and applied.

Other objects of the invention will be more fully understood from the following description which will be made in connection with the accompanying drawings, in which—

Figure 1, is a side view partly in section of the upper portion of an inverted incandescent gas burner, embodying features of the invention. Fig. 2, is a perspective view of one of the parts removed, and Fig. 3, is a sectional view taken on the line 3—3 of Fig. 1, looking upward.

In the drawings 1 is the depending portion of a burner tube and it is shouldered and threaded at its lower end.

2, is the upper portion of the chimney and it may be of white enameled metal. The chimney top 2 may be provided with a spider 3, having at its center an opening through which the threaded end of the burner tube passes. The top 2, is secured to the ends of the arms of the spider 3, as by rivets. 4, is a nut applied to this threaded end of the burner tube so as to hold the spider to place thereon. The chimney top 2 is provided with an opening 5, through which the burner tube passes.

6, is a chimney holder and it consists of a spider 7, the shanks of the arms of which lie in the plane of the ring at its center and the succeeding portions of these arms are bent downward and outward as at 9, where they are riveted or otherwise secured to a ring or band 10. The lower ends of these arms extend generally downward from the ring 10 and are then curved outwardly as at 11. The ends of the arms have punched from them spring tongues 12, the free ends of

which project inward and upward. The chimney holder is mounted in the chimney top 2, with the ring at the top of the holder fitted over the threaded end of the burner tube and with the ring or band 10 fitted to the flange at the bottom of the chimney top 2, which flange may be perforated as shown. The short section of pipe or thimble 14, is screwed onto the end of the burner pipe and serves to firmly secure the chimney holder to place. On the end of the thimble 14, the mantle holder 15 may be screwed.

The glass chimney 16 is flanged below its top as at 17. Evidently the glass chimney can be inserted to place in the chimney top by simply pushing it therein with the result that the tongues 12 spring past and under the flange 17. Similarly this chimney 16 can be withdrawn from the chimney top.

The mantle holder 15 can be readily applied to and detached from the thimble 14 and the latter can be detached from the threaded end of the burner tube 1, so as to permit of the removal and application of the chimney holder 6. Even when the parts described have been removed, the chimney top remains in place, but it can be readily applied and removed by putting on or taking off the nut 4.

The described arrangement is not only useful for the reasons described, but is also attractive in appearance and adapted to protect the mantles and promote a good draft for the flame by which they are heated.

It will be observed that the glass chimney 16, is open at the bottom and contracted toward the flange at the top where the opening is smaller than it is at the bottom and it will also be noted that the chimney top 2 is of smaller diameter than the top of the glass chimney 16, so that there is a gradual reduction in size from the bottom to the top of the combined chimney. Between the ends of the arms 11 and the chimney 16, there is space. The chimney depends from the ends of the tongues 12. The presence of this space opposes breakage and the ends of the arms 11, in effect, constitute guides by which the chimney is directed when applied or removed.

What I claim is:

1. A chimney holder for inverted incandescent gas lights which comprises a spider having at its top a ring provided with arms

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having their shanks in the general plane of said ring and having their intermediate portions curved downwardly and outwardly, a band surrounding and connected to said intermediate portions and having their ends curved outwardly and provided with spring tongues which project inwardly and upwardly, substantially as described.

2. A chimney holder for inverted incandescent gas lights which comprises a spider having outwardly and downwardly extending arms provided near their ends with inwardly and upwardly extending spring tongues, and a band encircling and connected with said arms, substantially as described.

3. In combination a burner tube having a threaded depending end, a chimney holder having a spider fitted onto said end, means applied to the threaded end for retaining the chimney holder, and a mantle holder detachably applied to said means whereby the mantle holder can be removed without disturbing the other parts, substantially as described.

4. In combination a burner tube having a threaded depending end, a chimney top having a spider applied to the burner end, a nut applied to the burner end for clamping said spider, a chimney holder having a spider applied to the burner end and arranged within the chimney top, a thimble applied to the burner end for holding the

chimney holder, and a mantle holder detachably applied to the thimble, substantially as described. 35

5. A chimney holder for inverted incandescent gas lights comprising a band, a spider connected with said band, and arms depending downward and outward from the band and provided near their ends with upwardly and inwardly projecting spring tongues, substantially as described. 40

6. A chimney holder for inverted incandescent gas lights comprising a band, a spider connected with said band, and arms depending downward and outward from the band and provided near their ends with upwardly and inwardly projecting spring tongues, in combination with a chimney having near the top thereof a flange engaged by the ends of said tongues from which the chimney depends, substantially as described. 45 50

7. The combination, in an inverted incandescent gas light of a chimney holder having spring tongues extending upwardly and inwardly, and a chimney having near its top a flange engaged by the ends of the tongues and from which it depends. 55

In testimony whereof I have hereunto signed my name. 60

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Witnesses:

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