J. B. GREENE.

HEATER FOR LAMP CHIMNEYS.

No. 36,584. Patented Sept. 30, 1862.

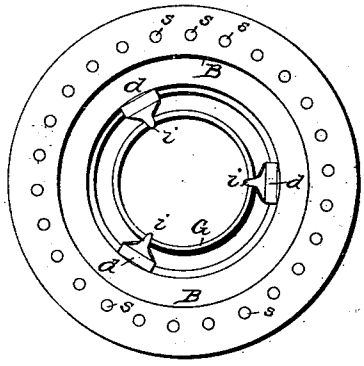


Fig. 2.

Fig. 3.

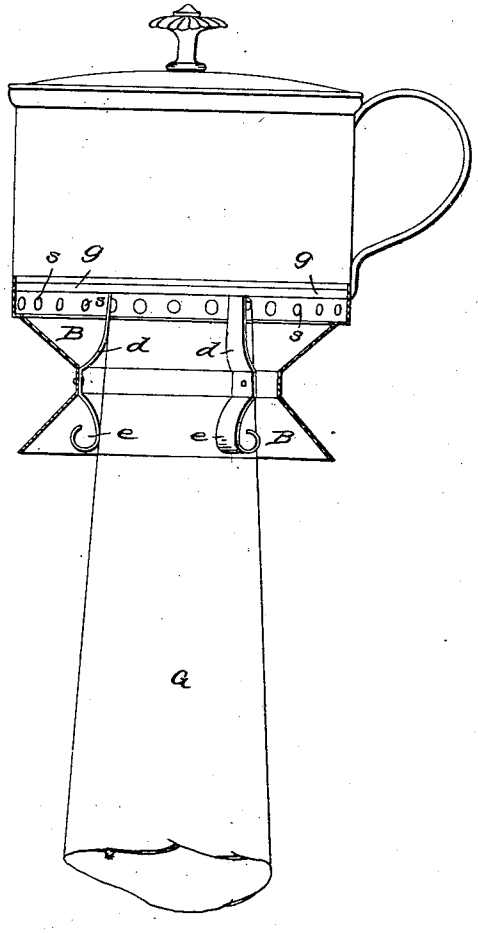
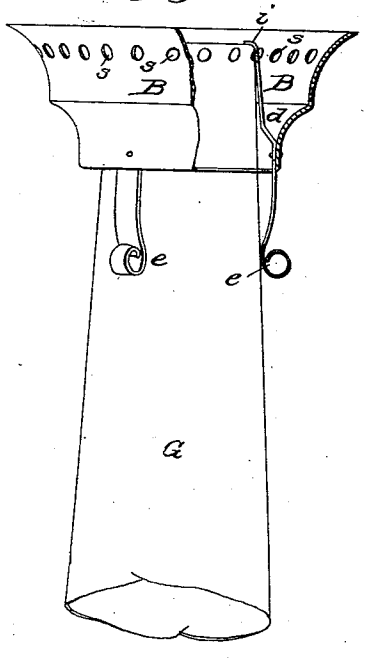


Fig. 1.



Witnesses:

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UNITED STATES PATENT OFFICE.

JEROME B. GREENE, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO ELLIOTT P. GLEASON, OF SAME PLACE.

HEATER FOR LAMP-CHIMNEYS.

Specification forming part of Letters Patent No. **36,584**, dated September 30, 1862.

To all whom it may concern:

Be it known that I, JEROME B. GREENE, of Providence, in the county of Providence and State of Rhode Island, have invented a new and Improved Heater for Facilitating the Heating of Fluids in Small Quantities, &c., over a Lamp-Chimney; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 represents my improved heater attached to the top of a lamp-chimney. Fig. 2 is a plan of the same detached. Fig. 3 represents the said heater formed upon the bottom of a cup for heating fluids, drinks, &c., and attached to the top of a lamp-chimney.

Similar letters of reference denote like parts in all the figures.

The intense heat arising from the chimney of a coal-oil lamp, at present so generally used for illuminating purposes, can be made available for many domestic purposes if some means be provided for holding a cup, porringer, or other light vessel securely and at a proper height over the chimney. To provide a suitable device for this purpose is, therefore, the object in view in this invention, which consists of a deep ring of metal, wrought in a suitable and tasteful form, and secured and supported at the top of the lamp-chimney by a number of springs, or an equivalent means, arranged with the said ring, as hereinafter shown and described.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same.

In Fig. 1, B is a deep metal ring, of brass or tin-plate, formed as shown, with a flaring top to insure greater security to the vessel or object placed thereon for the purpose of heating it or its contents. The ring is held and supported at the top of the lamp-chimney G by means of the lateral springs *d d d*, which are attached to the ring by rivets, as shown. The lower ends, *e*, of these springs embrace the outside of the chimney and hold the ring firmly in its position. The upper ends, *i*, of the springs, besides embracing the chimney, like the other ends, are formed with a hook which catches upon the top edge of the chimney, as shown, and thus serve to support the weight of the ring and whatever is placed thereon to be heated.

Instead of the hooked ends *i* of the springs, a rod, *g*, of wire, extending across the ring from side to side, may be used to support the ring and the object to be heated, as shown in Fig. 3.

The top of the ring should be at least one-eighth of an inch higher than the top of the chimney, and should be pierced with openings *s*, or have its uppermost edge fluted or corrugated to admit of a circulation of air and allow the heat to escape laterally from the bottom of the vessel which is being heated.

For greater convenience and security, the heater may be formed upon the bottom of a cup, porringer, or other suitable vessel, as shown in Fig. 3, the conditions and requirements of the heater being the same in each case, though, for obvious reasons, it is better that the heater and vessel be formed in one piece for some uses and separately for others, so that, whether the heater be formed upon the vessel or separate and distinct therefrom, it is, to all intents and purposes, substantially the invention herein set forth and intended to be claimed.

Having described my invention, I would state that similar springs to those herein shown and described, but without the hooked ends *i*, have been previously used to confine the ring of a paper shade to the outer surface of a similar lamp-chimney, for which purpose it is desirable that the springs confine the paper shade in a higher or lower position, as the case may be, instead of being supported near or at the top of the chimney, as herein shown and described.

What I claim as a new article of manufacture of my invention is—

Substantially the within-described heater for lamp-chimneys, whether attached to the vessel or object to be heated or distinct and separate therefrom, as set forth.

JEROME B. GREENE.

Witnesses:

JAMES H. PARSONS,

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