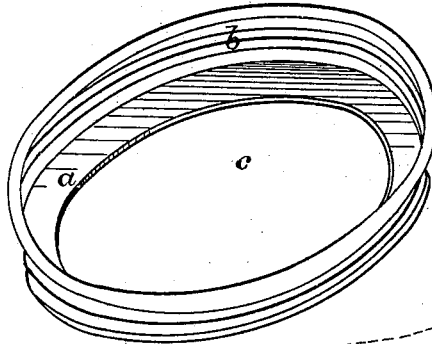


S. H. MILLER.  
Shade-Supporting Attachment.

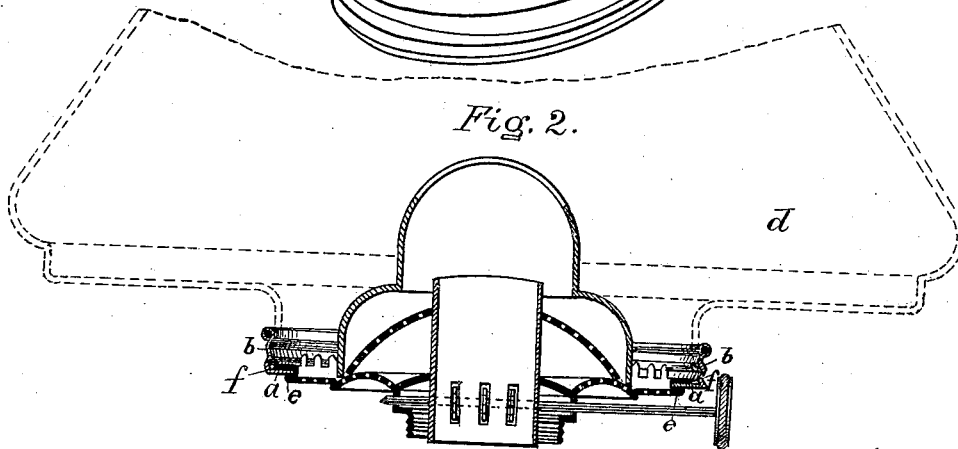
No. 215,763.

Patented May 27, 1879.

*Fig. 1.*



*Fig. 2.*



Witnesses:

*H. Giorgio*  
*D. P. Cowl*

*Shue Houston Miller*

Inventor:

*by his attorney*  
*W. J. Bailey*

# UNITED STATES PATENT OFFICE.

SAM HOUSTON MILLER, OF BROOKLYN, NEW YORK.

## IMPROVEMENT IN SHADE-SUPPORTING ATTACHMENTS.

Specification forming part of Letters Patent No. **215,763**, dated May 27, 1879; application filed October 26, 1878.

### *To all whom it may concern:*

Be it known that I, SAM HOUSTON MILLER, of the city of Brooklyn, county of Kings and State of New York, have invented certain new and useful Improvements in Attachments for Applying Wide-Base Chimneys and Combined Shade and Chimney to Lamp-Burners, of which the following is a specification.

Wide-base chimneys and combined shade and chimney possess points of advantage over ordinary lamp-chimneys which recommend them to favor and extensive use. A drawback, however, to their purchase and use is found in the fact that they cannot be used with the ordinary lamp-burner in the market, because requiring a rest or support of a greater diameter than that possessed by the burner, so that to use the wide-base chimney or illuminator, (another name for the combined shade and chimney,) the purchaser must also be at the expense of procuring a burner made and adapted for such chimney or illuminator. This fact is sufficient to deter many from availing themselves of the wide-base illuminator or chimney.

My invention is intended to furnish a cheap, ready, and simple means of using such a chimney or illuminator with any of the ordinary styles of lamp-burners now in the market.

To this end I make an annulus or ring whose diameter is such that it will fit snugly over and around the burner, this ring being flat, of a width to form a rest for the chimney or illuminator base, and being drawn, spun, or otherwise shaped with an upright or vertical rim to inclose the said base, and to carry the means by which the chimney or illuminator is fastened in place. This ring is an article designed to be attached to any burner by simply slipping it over the burner around the exterior of the ordinary chimney-gallery, so as to rest on the shoulder or milled bead, which is usually formed on such gallery, and then bending outwardly and down upon the flat surface of the attachment one or more of the metal fingers or prongs into which the rim of the ordinary chimney-gallery is usually divided. The attachment thus constitutes a distinct article to be sold to any purchaser of a wide-base illuminator or chimney, in order to permit of the application of that illuminator or chimney to an ordinary burner, while at the same time

it does not prevent the use instead, whenever desired, of the chimney or illuminator previously used for it. The attachment, of course, will be made with an opening of varying diameter and shape to suit the various styles and sizes of burners that may be in the market.

The nature of my invention, and the manner in which the same is or may be carried into effect, will be understood by reference to the accompanying drawings, in which—

Figure 1 represents, in perspective, my improved attachment in its preferred form. Fig. 2 is a vertical central section of a lamp-burner with my attachment in place thereon, and provided with a wide-base chimney.

The attachment consists of a flat annular disk of sheet metal, shaped by drawing or otherwise into dish-like form, with a flat horizontal part, *a*, an upright rim, *b*, and a central opening, *c*, of suitable size and shape to fit the burner.

The device is provided with suitable means for holding the chimney or illuminator in place. Inasmuch as the particular styles of illuminator and chimney for which the attachment is more especially designed are top-heavy and overhang the burner, I prefer to provide for its attachment by screw-threading the rim *b*, as shown, the base of the chimney *d* being provided with a corresponding screw-thread, so that it may screw into the rim and down upon the rest *a*. In this way the two are united tightly and securely.

The attachment is applied to the burner by slipping it over the exterior of the same, down around the exterior of the ordinary chimney-gallery, (which it fits snugly,) and until it brings up against the shoulder or milled bead *e*, which encircles the base of the gallery.

One or more of the fingers or prongs *f*, into which the rim of the gallery is usually divided, are now bent outwardly down upon the flat surface *a* of the attachment, which is thus held tightly and immovably between the shoulder or bead *e* below and the prongs *f* above.

The part *a* of the attachment is imperforate, air being supplied to the flame through the ordinary openings for that purpose in the burner. A few air-admitting perforations might be formed in the attachment, but not in such quantity or of such size as to admit an appre-

ciable current of air. The air-supply and air-currents enter and rise through the burner. To all intents and purposes the attachment should be, and is, practically imperforate.

I am aware that metallic shade-rings of various kinds have been applied in various ways to lamp-burners, designed to hold a shade to be used in connection with the ordinary chimney. None of such attachments, however, to my knowledge, has been adapted to be applied in the manner shown and described by me to any of the ordinary lamp-burners in the market, with a view to the use on such lamp-burners of a wide-base chimney or combined chimney and shade in lieu of and as a substitute for the ordinary lamp-chimney.

Having thus described my invention, what

I claim, and desire to secure by Letters Patent, is—

The herein-described wide-base chimney or combined chimney and shade attachment for lamp-burners, provided with means for positively fastening to it the base of the chimney, and formed with a practically imperforate annular base, whose inner edge encircles and fits around the lamp-burner, rests upon the horizontally-projecting bead on the same, and is adapted to be secured in place thereon, as shown and set forth.

S. H. MILLER.

Witnesses:

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S. W. FOWLER.