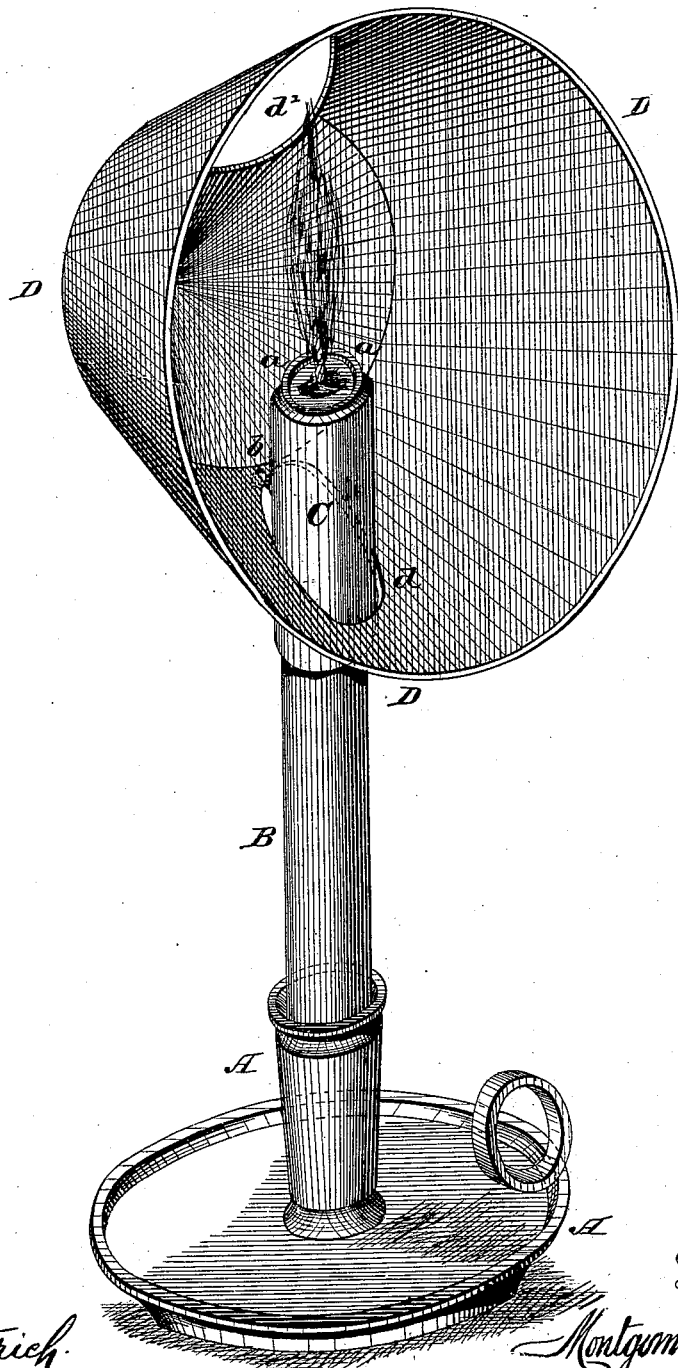


M. C. MEIGS.  
Reflector for Candles.

No. 209,178.

Patented Oct. 22, 1878.

*Fig. 1.*



Witnesses:  
*S. C. Dietrich*  
*Frank H. Duff*

Inventor:  
*Montgomery Meigs*

Per *C. H. Watson & Co.* Attorneys.

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Fig. 2.

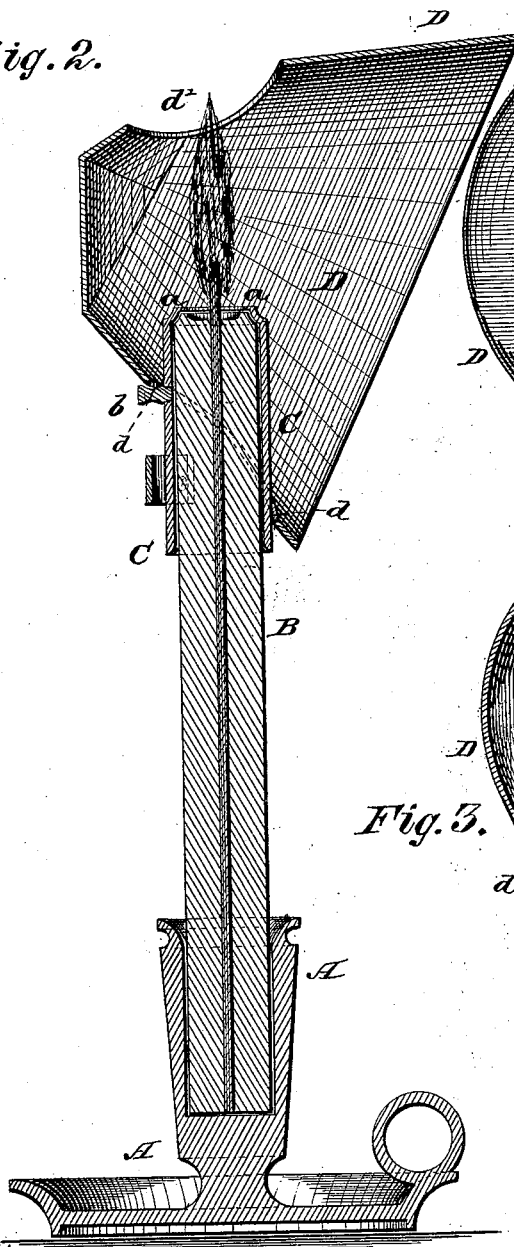


Fig. 4.

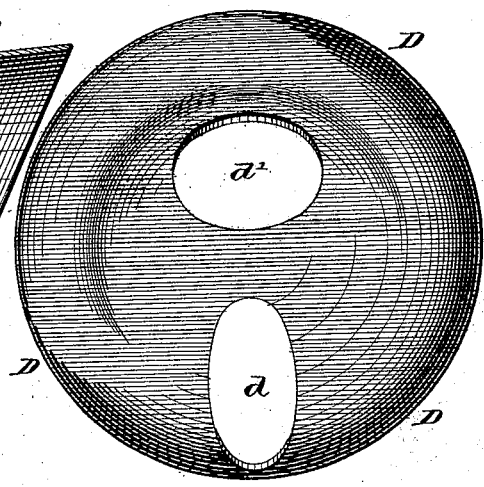
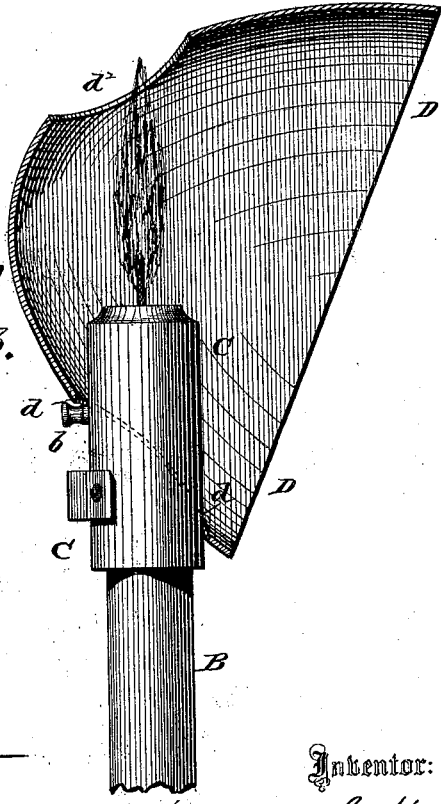


Fig. 3.



Witnesses:

*P. H. Dietrich*  
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# UNITED STATES PATENT OFFICE.

MONTGOMERY C. MEIGS, OF WASHINGTON, DISTRICT OF COLUMBIA.

## IMPROVEMENT IN REFLECTORS FOR CANDLES.

Specification forming part of Letters Patent No. **209,178**, dated October 22, 1878; application filed October 8, 1878.

*To all whom it may concern:*

Beit known that I, MONTGOMERY C. MEIGS, of Washington, in the District of Columbia, have invented certain new and useful Improvements in Reflectors for Candles; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The object of my invention is to improve and increase the light from adamantine and other candles; and the nature of my invention consists in a sliding cap arranged on the candle and carrying a reflector, said cap adjusting itself on the candle as the candle burns down, whereby the reflector is caused to maintain at all times its position relative to the flame, as will be hereinafter more fully set forth.

In the annexed drawing, to which reference is made, Figure 1 is a perspective view of my invention. Fig. 2 is a central vertical section, showing conical reflector. Fig. 3 is a similar view, showing parabolic reflector. Fig. 4 is an end view of the same.

A represents an ordinary candlestick, with candle B therein. Over the top of the candle is placed a metal tube or cap, C, having at its upper end an inwardly-projecting flange, *a*, which rests on the upper end of the candle, and thus supports the cap thereon. On one side of the cap, near the upper end, is a projecting pin or button, *b*, for the purpose of supporting in proper position a metallic reflector.

D represents a metallic reflector, made parabolic in section; or it may be made of two or more conical frusta, nearly coincident in general form, with a paraboloid about six inches wide at the mouth and three inches deep. The reflector D has two holes, one, *d*,

below, to introduce the metallic cap—and one, *d'*, above, for escape of heated air, gas, and smoke of the candle-flame.

The projecting pin on the cap supports the reflector in such position as to direct the axis of the reflector obliquely downward upon a table, book, or paper; and as the reflector surrounds the flame, it gathers or collects the whole or a great part of the light into a beam of nearly parallel rays, which are thrown obliquely downward upon the object to be illuminated.

As the candle burns down, the metallic cap settles down with the candle, and maintains the reflector at all times in the same relative position to the flame.

The reflector may be made of sheet metal cut out to a suitable pattern and rolled into shape; and then riveted, soldered, or brazed and electroplated; and it may be connected to the cap C by any suitable or convenient means, though the most simple form is the projecting pin *b* for supporting the reflector.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A reflector supported upon a separate metallic cap, which is placed over the end of a candle, and adapted to adjust itself thereon, substantially as and for the purposes herein set forth.

2. The combination of a metallic cap, C, with projecting pin *b* and a reflector supported thereon, the whole adapted to be used on a candle, and to adjust itself thereon, substantially as herein set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

M. C. MEIGS.

Witnesses:

GEO. K. FINKEL,  
C. H. WATSON.