

(No Model.)

W. E. P. FRENCH.
SHADE HOLDER FOR CANDLES.

No. 510,907.

Patented Dec. 19 1893.

Fig. 1.

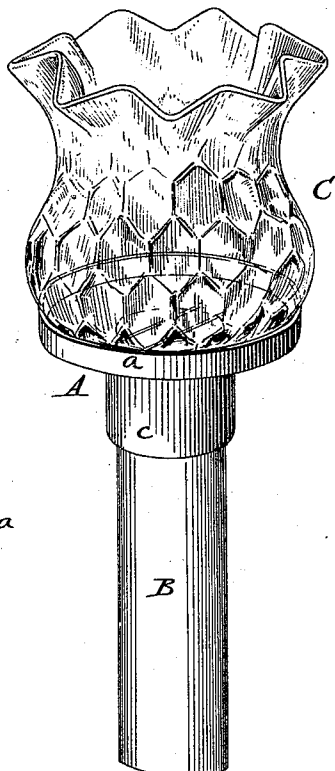


Fig. 2.

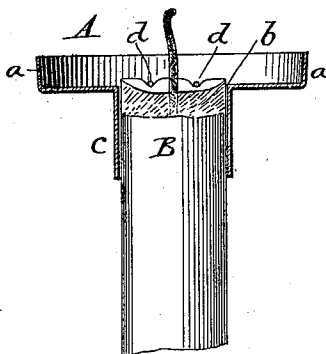


Fig. 3.

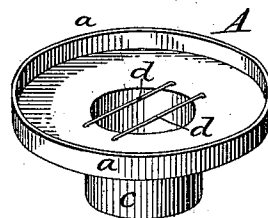


Fig. 5.

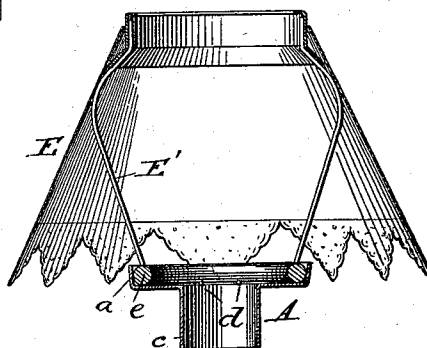
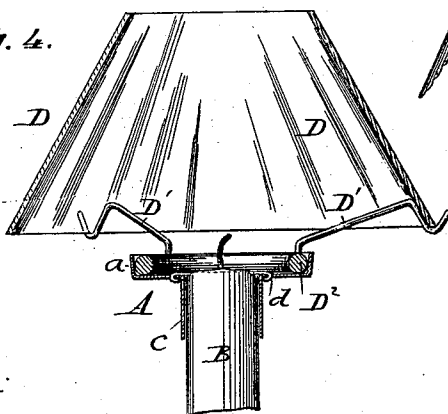


Fig. 4.



Attest:

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UNITED STATES PATENT OFFICE.

WILLIAM E. P. FRENCH, OF FORT SNELLING, MINNESOTA.

SHADE-HOLDER FOR CANDLES.

SPECIFICATION forming part of Letters Patent No. 510,907, dated December 19, 1893.

Application filed February 15, 1890. Serial No. 340,658. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. P. FRENCH, of the United States Army, a citizen of the United States, at present residing at Fort Snelling in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Shade-Holders for Candles, of which the following is a specification.

My invention relates to that class of candle shade-holders in which the shade is self-adjusting being supported on a frame or holder that rests on the top of the candle and which descends by gravity as the candle burns away so as to at all times hold the shade in proper relation to the flame. In this class of shade-holders it is desirable that the flame be shielded from drafts of air at the side and from the bottom so that the top of the candle shall be consumed uniformly, and the grease shall be prevented from overflowing the sides of the candle or the shade-holder.

My improvements are illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a candle with my improvements applied. Fig. 2 is a central section through my improved shade-holder showing it applied to a candle. Fig. 3 is a perspective view of the shade-holder detached. Fig. 4 is a vertical, central section through the shade-holder showing a modified form of shade. Fig. 5 is a similar view showing another form of shade.

The annular shade-holder A, is formed around its periphery with an upwardly projecting flange *a*, and around the central opening *b*, with a deep downwardly projecting flange or ring *c*. The flange or ring *c* is adapted to fit around the top of a candle B, closely enough to hold or maintain the main body of the holder in a horizontal position, but loosely enough to prevent binding and allow the holder to descend on the candle automatically as it is burned away. The shade-holder is supported on the candle by cross-pieces or wires *d*, which extend transversely across the central opening *b*, and are secured to opposite sides thereof, close to and in line with the horizontal body of the holder. These cross-pieces or wires are so arranged that when in position they rest on the top of the candle on opposite sides of the wick, as shown particularly in Fig. 2. The cross-pieces may be

made of very fine wire or similar material and will not appreciably cover the top of the candle or conduct away heat. They do not appreciably cover, break, or interfere with the cup or bowl of the candle in which the melted grease accumulates so that the wick is supplied freely, and the thin, frail edges of the candle at the top are not broken away to any great extent, and consequently the grease does not tend to overflow the sides. The downwardly projecting flange or ring *c* closely surrounds the candle at the top as does also the main body portion of the holder and the heat at the edge of the candle is conducted away so that the walls of the concave or cup of the candle are kept firm and strong. As the candle burns away the walls of course are gradually consumed and the height of the bowl is maintained substantially uniform.

In Fig. 1, an ornamental globe or shade C is shown as supported directly in the flanged holder A.

In Fig. 4, a frustum-shaped shade D is shown as supported at its edges by an ordinary hook frame D' having an annular center-piece D² resting in the flanged holder A.

In Fig. 5, a silk, paper or lace-work frame E is shown as supported in a vertical wire frame E', the annular base of which rests in the flanged holder A.

Other varieties of shade may be readily applied to the holder without materially modifying it.

My improved shade-holder is light, but strong and durable; it is entirely self-adjusting, requiring no attention whatever. It may be placed on the longest candle and will always remain at the top of the candle as it is consumed away until it reaches the candlestick.

There is absolutely no waste in the candle the flange or ring *c* preventing any tendency to overflow and the candle may be used for table decoration and other similar purposes with perfect safety.

I am aware that in Patent No. 377,345, to C. C. Worthington, of January 31, 1888, a candle shade holder is shown in which a ring surrounds the wick and rests on the top of the candle and is connected to the shade holding frame by upwardly and outwardly extending curved wires. I am also aware that Patent

No. 412,301, to P. Sloan, of October 8, 1889, shows a candle shade holder in which the vertical wires of the frame are provided with looped spring arms the ends of which rest on the top of the candle. My improvements possess the advantages of being simpler, lighter, not so liable to be bent or distorted or to break the top of the candle.

The holder A may be used without the shade, and will then perform the function of a drip cup.

I claim as of my own invention—

1. The combination, substantially as hereinbefore set forth of the candle, the annular holder or ring arranged around the candle at its extreme upper end, and the horizontal cross-pieces secured to the top of the ring on opposite sides of its central opening, and which rest on the top of the candle on opposite sides of the wick.

2. The combination, substantially as hereinbefore set forth, of the candle, the annular holder, formed at its edge or periphery with an upwardly-projecting flange, and with a downwardly projecting flange around its central opening, the candle projecting into the flanged opening, the horizontal cross-pieces or wires, secured to the top of the holder, on opposite sides of its central opening, across which they extend, and resting on the top of the candle on opposite sides of the wick, and the shade resting on the annular holder, within the flange, at its periphery.

In testimony whereof I have hereunto subscribed my name.

W. E. P. FRENCH.

Witnesses:

LLOYD B. WIGHT,
N. H. SMITH.