No. 682,079. Patented Sept. 3, 1901.

F. E. HOWARD.

SHADE HOLDER FOR CANDLES.

(Application filed Oct. 10, 1900.)

(No Model.)

Fig. 1

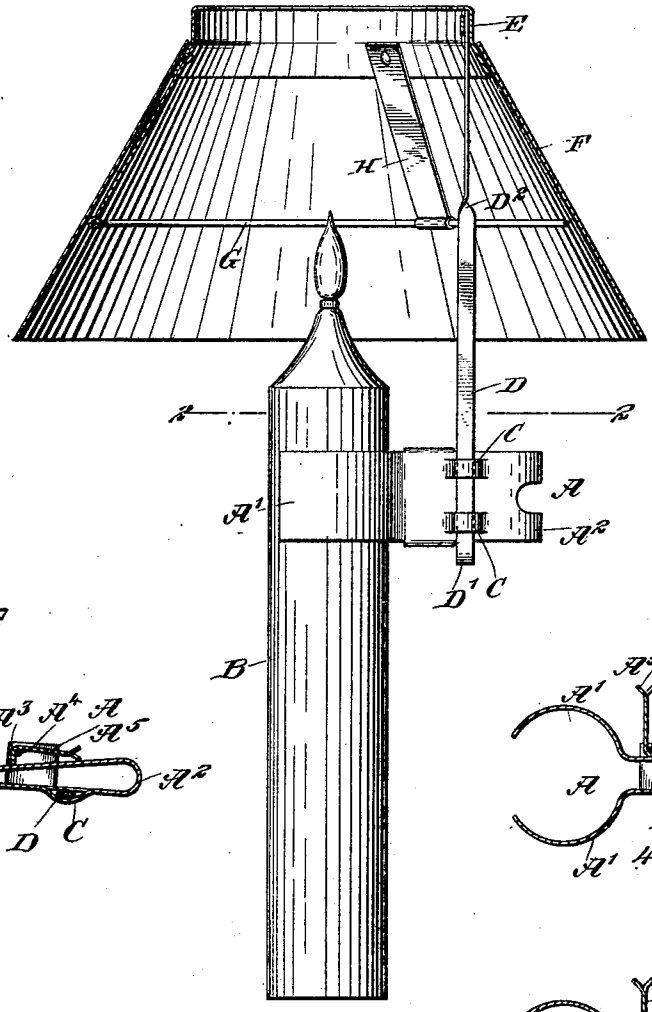


Fig. 2

Fig. 3

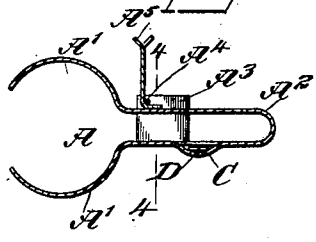


Fig. 5.

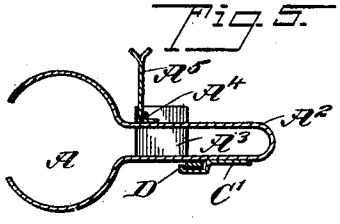
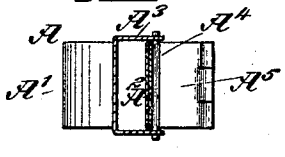


Fig. 4.



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SHADE-HOLDER FOR CANDLES.

SPECIFICATION forming part of Letters Patent No. 682,079, dated September 3, 1901.

Application filed October 10, 1900. Serial No. 32,619. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN EDWARD HOWARD, a citizen of the United States, and a resident of Buffalo, in the county of Erie and State of New York, have invented a new and Improved Shade-Holder for Candles, of which the following is a full, clear, and exact description.

The invention relates to shade-frames such as shown and described in the Letters Patent of the United States No. 632,120, granted to me on August 29, 1899.

The object of the invention is to provide a new and improved shade-holder for candles arranged for convenient attachment to a candle and readily adjusted to bring the shade in proper position to the candle-flame, and thereby produce the desired protection from the rays of the flame.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional side elevation of the improvement applied to an artificial candle. Fig. 2 is a sectional plan view of the same on the line 2 2 in Fig. 1. Fig. 3 is a like view of the improvement with parts in a different position. Fig. 4 is a transverse section of the same on the line 4 4 in Fig. 3, and Fig. 5 is a sectional plan view of a modified form of the improvement.

The improved adjustable shade-holder has a clamp A for attachment to an ordinary candle or to an artificial candle B for use on gas-fixtures, as shown in Figs. 1 and 2. The clamp A is provided with vertically-disposed guideways C, in which is mounted to slide an upwardly-extending rod D, secured at its upper end to a shade-frame E, preferably of the construction shown and described in the patent above referred to, said shade-frame being adapted to hold the shade F in position, the lower portion of the shade resting on a ring G, supported by arms H from the beveled ring of the shade-frame, as indicated in Fig. 1. The rod D is preferably made of a flat piece of metal turned over at its lower end to form a stop-lug D′ for limiting the upward sliding motion of the rod in the guideways C, and the upper portion of said rod D is formed with a twist D^2 to form a stop for limiting the downward sliding movement of the rod in the guideways C, the twist also serving to bring the upper portion of the rod D in proper position for attaching it to the beveled ring of the shade-frame E. The guideways C are sufficiently tight around the rod D to hold the latter in any position it is moved into by the operator, it being understood that by adjusting the rod D up or down the shade F is brought in proper relation to the flame of the candle, and as the clamp A can be readily moved up or down on the candle B it is evident that the operator can regulate the position of the shade relatively to the flame to a nicety.

When the device is used on an ordinary candle, the operator can shift the clamp A as the candle burns down to permit of using the shade-holder on the candle until the latter is almost completely consumed. The clamp A is preferably of the construction shown in the drawings and is formed with two spring-jaws A′, integral with the ends of a U-shaped shank A^2, carrying at one side transversely-extending lugs A^3, in which is journaled a pivot A^4 for an angular lever A^5, adapted to be taken hold of by the operator to press the jaws A′ into a closed or open position, as is plainly indicated in Figs. 2 and 3. When the lever A^5 is in the open position, (shown in Fig. 3,) the jaws A′ can be readily placed upon the candle B, and then the clamp A is moved up or down on the candle to bring the clamp to the proper position, and then the operator swings the lever A^5 over into the position shown in Fig. 2 to firmly engage the jaws A′ with the outer surface of the candle and lock the clamp in place on the candle.

As indicated in Fig. 1, the guideways C are formed by striking up arms from one member of the shank A^2; but this construction may be varied—for instance, as shown in Fig. 5, in which the guideway C′ is made of a separate piece of spring metal secured to the member of the shank A^2 and engaging with its free end the rod D, so as to hold the rod by

spring-contact in position after it is shifted up or down to bring the shade F in proper relation relatively to the flame of the candle.

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

1. A shade-holder for use on candles comprising the clamp composed of a plate of spring metal having the opposite spring-jaws and the double-winged U-shaped shank, and having one of its shank-wings provided with an arm forming with the body of the wing a clamping-guide for the shade-supporting rod, the supporting-rod held and movable longitudinally in said guide, the lugs or plates projecting from one of the shank-wings and extending past the other said wing, and the lever carried by said lugs and arranged for operation to compress the shank and force the clamping-jaws toward each other, all substantially as and for the purpose set forth.

2. A shade-holder for use on candles comprising the clamp for application to the candle and provided with vertical guides for the shade-supporting upright, the shade, and the upright composed of a strip of flat metal fitting slidably in the guide of the clamp twisted above said guide forming a stop to limit the downward movement of the upright and also bringing its upper portion into position for attachment to the wing of the shade-frame, substantially as set forth.

3. In a shade-holder, a clamp having jaws, and a shank comprising opposite wings and having one of said wings provided with an upright guide for the shade-supporting rod, and the rod slidable in said guide, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANKLIN EDWARD HOWARD.

Witnesses:
FRANK A. SIMPSON,
MARY AGNES HILLES.