

L. RILEY,
CANDLE LAMP.
APPLICATION FILED FEB. 7, 1916.

1,278,386.

Patented Sept. 10, 1918.

Fig-1-

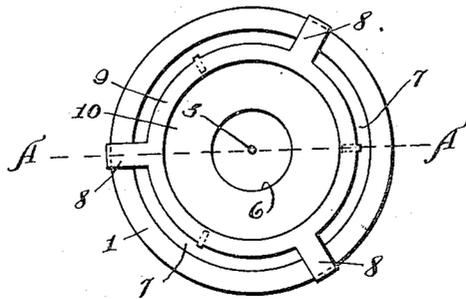


Fig-2-

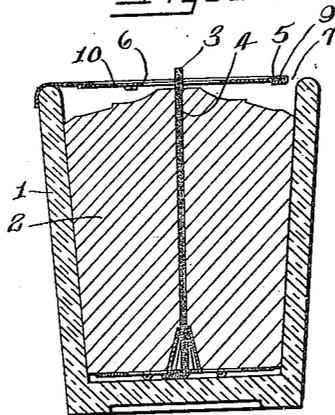


Fig-3-

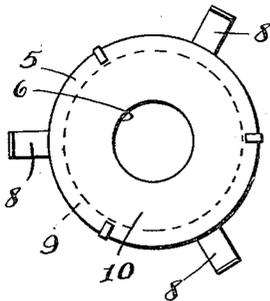
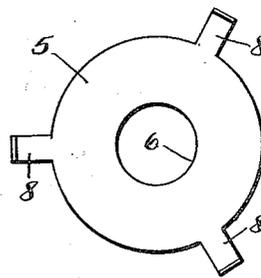


Fig-4-



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UNITED STATES PATENT OFFICE.

LESTER RILEY, OF GREENWOOD, MASSACHUSETTS, ASSIGNOR TO THE WILL & BAUMER COMPANY, OF SYRACUSE, NEW YORK, A CORPORATION OF NEW YORK.

CANDLE-LAMP.

1,278,386.

Specification of Letters Patent. Patented Sept. 10, 1918.

Application filed February 7, 1916. Serial No. 76,672.

To all whom it may concern:

Be it known that I, LESTER RILEY, a citizen of the United States, and a resident of Greenwood, in the county of Middlesex and State of Massachusetts, have invented a certain new and useful Candle-Lamp, of which the following is a specification.

This invention relates to candle lamps in which the candle is located in a cup, or holder, and has for its object means by which an air draft is caused to pass at all times to the flame in order to support combustion, especially when the candle is partly consumed and hence the flame located well down in the cup or holder; the invention consists in the novel features hereinafter set forth and claimed.

In describing this invention, reference is had to the accompanying drawings in which like characters designate corresponding parts in all the views.

Figure 1 is a plan view of a portion of a candle lamp embodying my invention.

Fig. 2 is a section on line A—A, Fig. 1.

Fig. 3 is a detail view of one form of cover for the holder.

Fig. 4 is a detail view of a modified form of a cover for the holder.

1 designates the holder which is in the form of a transparent glass cup.

2 is the candle located in the holder and having its upper end located below the plane of the upper edge of the holder but before the candle is burned it may project above this plane, it being only necessary that the side walls of the cup project above the outer margin of the top face of the candle, to provide sufficient space to receive the melted grease or wax during the initial burning of the candle so that the grease or wax will not run over onto the outside of the cup.

Of course, as the candle is consumed its upper end and the flame recede toward the bottom of the cup.

The object of this invention is means by which sufficient air draft is provided to support combustion at the wick so that the wick will not be submerged in the melted grease

at the top of the candle and hence the flame will not be extinguished.

3 designates the wick of the candle which usually includes a capillary portion or sleeve, and a central rigid reinforcing core 4 of combustible or fusible material, this core being comparatively rigid in order to support the capillary sleeve and hold the upper end thereof above the melted grease at the top of the candle.

5 designates a cover for the cup 1, this cover being provided with a central opening 6 and marginal openings 7 which form respectively passages for an updraft and a down draft of air.

As here shown, this cover 5 is an annular plate of less diameter than the internal diameter of the cup and having lugs 8 projecting from its periphery, which lugs rest upon the upper edge of the cup 2 and curve slightly over onto the outer face of the cup 2. As seen in Fig. 3, this plate includes a metallic rim portion 9 and a central transparent portion 10 of mica, but as seen in Fig. 4, the plate may be struck entirely from sheet metal.

In operation, the holder 1 is usually used in connection with a candle lamp having a base formed with a cup in which the holder sets, and a chimney above the cup such as described in the application of Harold H. Will, Sr., No. 50,705, filed Sept. 14, 1915. During the burning of the candle, the air passes in the inlets 7 and is drawn by the combustion to the wick where it supports combustion so that the combustion is supported at all times and extinguishment of the flame is avoided. Also the air draft tends to cool some of the melted body of wax or grease. Furthermore, owing to the reinforced wick and to the air draft extinguishment of the flame is avoided and the burning of the candle until it is entirely consumed is assured.

What I claim is:

A candle lamp comprising a holder, and a candle located in the holder, and terminating below the plane of the upper edge

of the holder, and a cover for the holder comprising a plate having a central opening, and lugs projecting outwardly from the edge thereof and resting on the upper edge of the holder, the plate being of less diameter than the internal diameter of the holder at its top for providing a marginal

air inlet, substantially as and for the purpose set forth.

In testimony whereof, I have hereunto signed my name, at Greenwood, in the county of Middlesex, in the State of Massachusetts, this 9th day of November, 1915.

LESTER RILEY.