

M. H. STERLING.
CANDLE PROTECTOR.
APPLICATION FILED NOV. 22, 1909.

977,567.

Patented Dec. 6, 1910.

Fig. 1.



Fig. 2.

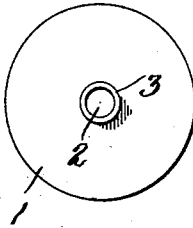
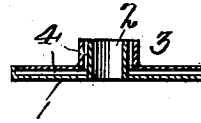


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

MARK HOWARD STERLING, OF BISBEE, ARIZONA TERRITORY.

CANDLE-PROTECTOR.

977,567.

Specification of Letters Patent.

Patented Dec. 6, 1910.

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To all whom it may concern:

Be it known that I, MARK HOWARD STERLING, a citizen of the United States, and a resident of Bisbee, in the county of Cochise and Territory of Arizona, have invented a certain new and useful Candle-Protector, of which the following is a specification.

The object of my invention is to economize in the consumption of candles by lessening the waste of the combustible substance during burning.

The principal causes of such waste are the escape of the melted fuel from the reservoir, which is maintained around the wick while the candle is burning, as when the candle is held in an inclined position or a draft of air blows the flame against one side and burns a hole in the confining rim, which naturally forms when the candle burns undisturbed, also the too free feeding of the melted wax or tallow by the wick which is manifested by the smoking of the flame.

My invention avoids the causes of waste above referred to by providing flat disks provided with an inclosed air chamber, preferably corresponding in diameter to the diameter of the candle so that the protector may lie upon the upper end of the candle and having a central perforation, (preferably though not necessarily provided with a cylindrical extension or flange) which will feed the wick with sufficient accuracy to prevent displacement of the protector. The protector thus applied, forms a cap or cover for the reservoir of melted fuel of which the candle is formed, prevents excessive melting due to the direct radiation of heat from the flame, prevents melted fuel from spilling over the sides, and prevents excessive feed of the fuel up through the wick with the results that whether the candle be held vertical or not, it will burn approximately fifty per cent. longer, smoking will be prevented, and the flame will be improved as compared with the same candle burned under identical conditions with the protector.

In order that the invention may be fully understood, I will proceed to describe the same with reference to the accompanying drawings, wherein,

Figure 1 is a view of candle having my

invention applied thereto; Figs. 2 and 3 are respectively, a top plan view and a cross sectional view of the protector removed from the candle.

Referring to the drawings wherein like numerals indicate like parts throughout the different views, the numeral 1 indicates a pair of superposed disks connected together throughout their peripheries, each of said disks being preferably of dimensions corresponding approximately to the sectional area of the candle to which it is to be applied.

In securing the peripheries of the disks together, an air chamber 4 is formed between the disks, which extends into the upwardly projecting sleeve 3, which in turn surrounds a central opening 2 formed in the disks to permit the passage of the wick therethrough. This opening or passage 2 is so reduced as to enable the wick to resist lateral displacement of the disk when in use, though not sufficiently restricted to choke the use of the melted fuel. The sleeve 3 is of sufficient axial extent to resist the tendency of the disk to tip or assume an inclined position should it become unevenly supported temporarily, by unequal melting of the tallow or wax, which constitutes the fuel of the candle.

By forming the protector with an inclosed air chamber, excessive melting or evaporation of fuel will be prevented, while the efficiency of the protector as an insulator against the heat of the candle flame may be increased by partially or wholly exhausting the air from the inclosed chamber. This hollow construction also increases the buoyancy of the protector and prevents displacement of the melted candle substance by sinking in it.

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

A candle protector comprising a cap provided with an inclosed air chamber formed therein, said cap having a central perforation for the passage of the wick.

MARK HOWARD STERLING.

In presence of two witnesses:

G. B. AUSTIN,
THOS. MUAT.