

(No Model.)

C. H. SHAW.
SULPHUR CANDLE.

No. 501,471.

Patented July 11, 1893

Fig. 1.

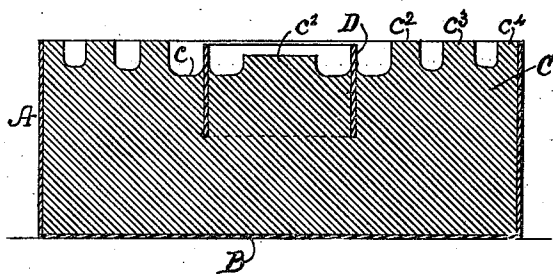


Fig. 2.

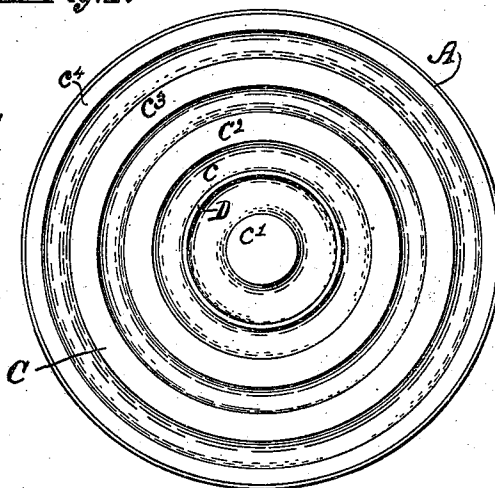


Fig. 3.

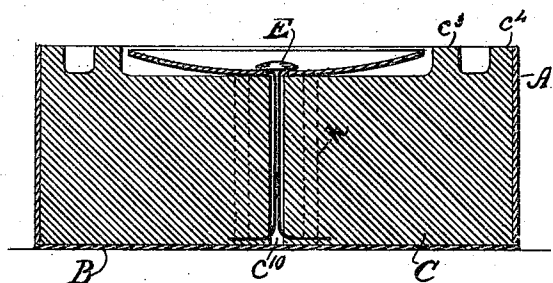
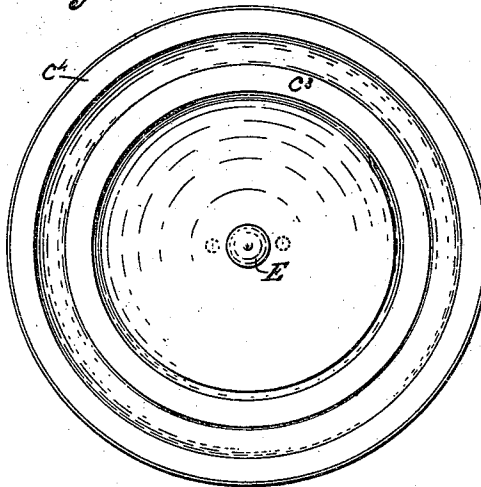


Fig. 4.



WITNESSES:

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SULPHUR CANDLE.

SPECIFICATION forming part of Letters Patent No. 501,471, dated July 11, 1893.

Application filed February 11, 1892. Serial No. 421,138. (No specimens.)

To all whom it may concern:

Be it known that I, CHARLES H. SHAW, of Brooklyn, Kings county, and State of New York, have invented a certain new and useful
5 Improvement in Sulphur Candles, of which the following is a specification.

My improvement consists in a sulphur candle having on its upper surface a series of ridges to facilitate combustion and prevent
10 the overflow of the sulphur on being melted.

My improvement also consists in a sulphur candle having a wick and a ridge outside the same, so as to facilitate combustion and prevent overflowing of the sulphur.

15 The improvement also consists in a sulphur candle having an annular wick and projections on opposite sides of the same.

In the accompanying drawings, Figure 1 is a central vertical section of a sulphur candle
20 embodying my improvement. Fig. 2 is a plan or top view of the same. Fig. 3 is a central vertical section of a modified form of candle. Fig. 4 is a top view of the latter.

Similar letters of reference designate corresponding parts in all the figures.

Referring first to Figs. 1 and 2, A designates a band of metal or other equivalent non-combustible material. As here shown, it is secured to a plate B, the two together forming
30 a container for a mass of sulphur, C, forming a candle. This candle may have any substance combined with it for facilitating its combustion as, for instance, shreds of fiber or any suitable wick. The top of the sulphur
35 candle has a number of ridges, c' c^2 c^3 c^4 . The ridge c' is made in the form of a boss or circular protuberance. Between these ridges are annular cavities or gutters.

From the gutter c between the ridges c' c^2
40 projects an annular wick, D, which may be made of cloth or any other suitable material. As here shown, this wick does not project farther upward than the ridges, and hence it is in a measure protected by the ridges. The
45 ridges not only protect a wick of the character illustrated, but facilitate the combustion of the sulphur and also prevent it from over-

flowing. The latter result manifestly ensues because the ignition being at the center, the ridge next outside the wick will be consumed
50 from the inner side and the combustion will progress outwardly, so that a cavity will be formed for molten sulphur before the outermost ridge is reached.

Figs. 3 and 4 illustrate a candle which may
55 be similar to the one already described, except that it has no central projection on its upper surface and is furnished with a disk-shaped wick, of cloth or other suitable material. This wick has a large central opening
60 and is secured in place by a device, E, similar to an ordinary paper fastener having a head and two soft metal strips, the latter being of a size to pass freely through the central opening of the wick, and also through a
65 hole c^{10} in the mass of sulphur C. The ends of these strips may be bent laterally under the bottom of the mass of sulphur.

Instead of the device E, a piece of wire or combustible string may be used to fasten the
70 wick, and, when it is used, it may be passed through holes in the wick and embedded in the sulphur or passed through holes h , indicated by dotted lines in Fig. 3.

What I claim as my invention, and desire
75 to secure by Letters Patent, is—

1. A sulphur candle having on its upper surface a series of ridges, and cavities or gutters and a wick material substantially as
80 specified.

2. A sulphur candle having a cavity or gutter, a wick and a ridge outside the same, substantially as specified.

3. A sulphur candle having a cavity or gutter, an annular wick and projections on
85 opposite sides of the same, substantially as specified.

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

CHARLES H. SHAW.

Witnesses:

ANTHONY GREF,
WM. M. ILIFF.