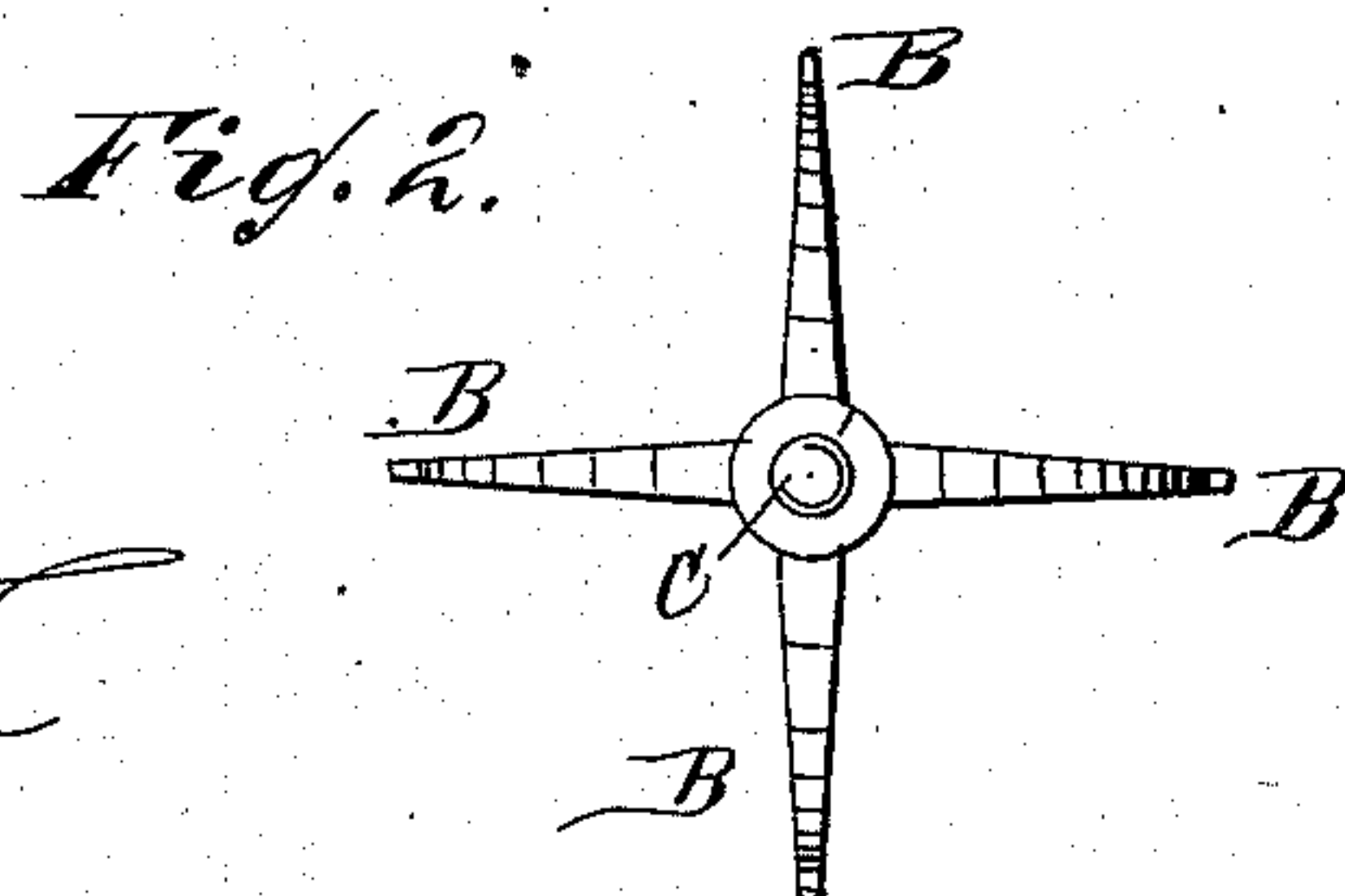
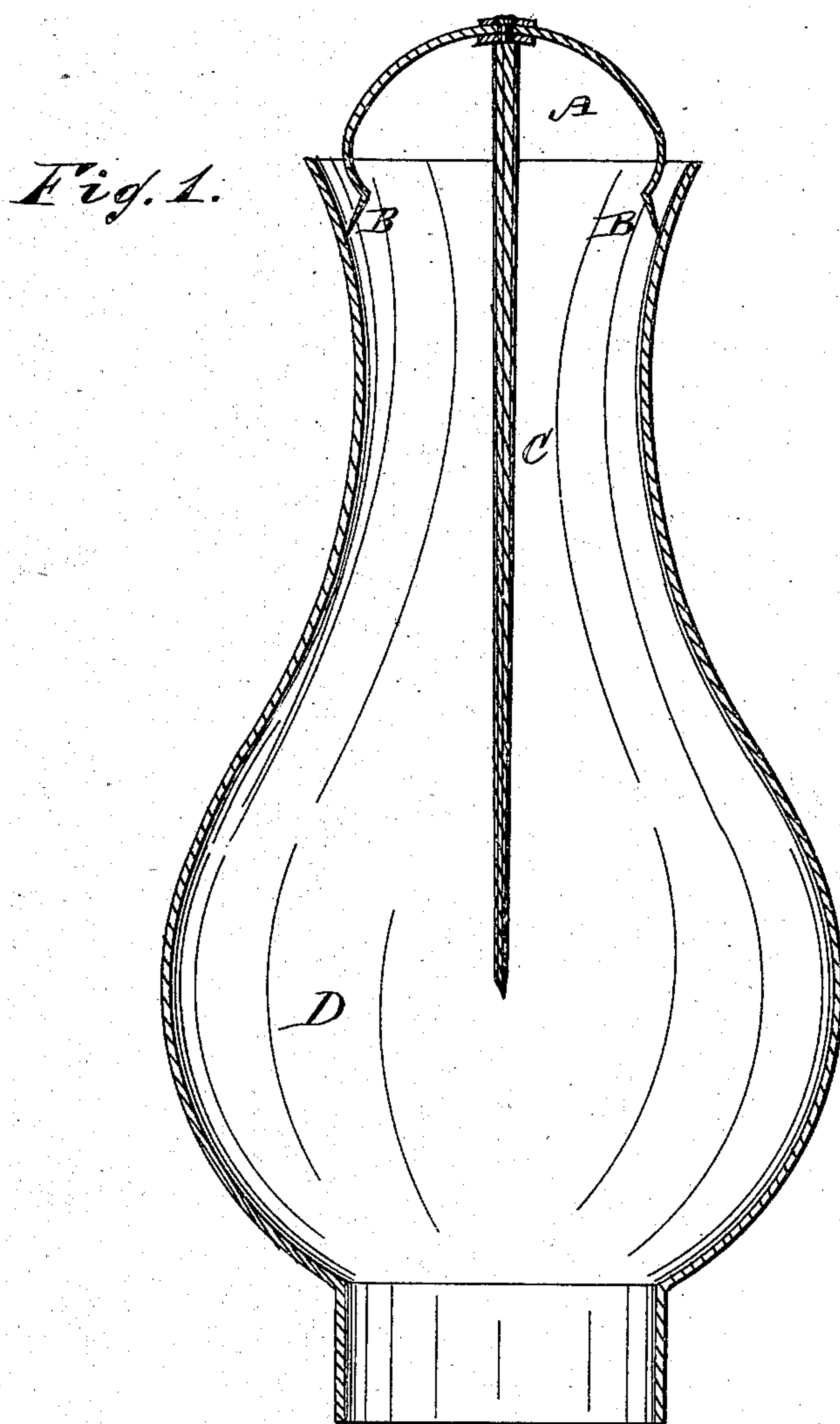


(Model.)

W. H. DUNN.
LAMP CHIMNEY PROTECTOR.

No. 258,032.

Patented May 16, 1882.



WITNESSES:

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WESLEY H. DUNN, OF BELLWOOD, PENNSYLVANIA.

LAMP-CHIMNEY PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 258,032, dated May 16, 1882.

Application filed April 13, 1882. (Model.)

To all whom it may concern:

Be it known that I, WESLEY H. DUNN, of Bellwood, in the county of Blair and State of Pennsylvania, have invented a new and Improved Lamp-Chimney Protector, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved device to prevent lamp-chimneys from being cracked by heat or sudden changes of temperature.

The invention consists in a lamp-chimney protector formed of two curved metal strips or springs attached rigidly or pivoted to one end of a metal rod. The curved strips or springs have their ends bent outward, and these strips are passed into the top of the lamp-chimney in such a manner that the rod projects downward. The heat that accumulates in the rod prevents rapid cooling, and consequent cracking of the chimney, as the rod attracts the heat and carries it out of the bulge of the chimney, so that the chimney does not get as hot as it would without a protector.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a longitudinal sectional elevation of a lamp-chimney provided with my improved protector. Fig. 2 is a plan view of my improved lamp-chimney protector.

Two semicircular bent metal strips, A, having their ends B bent outward, are pivoted at the middle to one end of a rod, C, in such a manner that the shanks of the bent strips will be at the sides of this rod C, as shown. The strips A must be pivoted free to turn on the end of this rod C. The protector is placed into the lamp-chimney D, in such a manner that the bent ends B of the strips press against the inner sides of the upper end of the chimney, and the rod C projects down into the chimney, its lower end being about one inch above the top of the flame of the lamp, as shown. If the chimney

is cylindrical, the strips A are adjusted to be at right angles to each other, and if the chimney is oval the corresponding ends of the strips are moved more or less toward each other, so as to fit on the upper edge of the chimney.

The strips A and the rod C are heated by the flame of the lamp, and as they are of metal they retain heat much longer than the chimney. If the light is extinguished and the chimney cools off rapidly, the heat passes from the rod C and strips A to the chimney, and prevents rapid cooling and consequent cracking of the chimney. This device not only prevents the chimney from cracking, but also prevents the burner from becoming too hot, as the protector absorbs the greater part of the heat of the flame, and thus prevents an explosion of the lamp on account of an overheated burner.

The spring-strips A hold themselves properly in the chimney, and do not interfere with the light or with carrying the lamp from place to place. The strips A can be bent triangularly or U-shaped, the semicircular form being preferred, and, if desired, the strips A can be attached rigidly to the rod C, instead of being pivoted.

The rod C may be made of a plain rod of metal, or may be of wire or strips of metal twisted or braided together.

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

1. A protector for lamp-chimneys made, substantially as herein shown and described, of two curved metal strips pivoted to one end of a rod, as set forth.

2. In a lamp-chimney protector, the combination, with the metal rod or wire C, of the crossed curved metal strips A, having the ends B bent outward, substantially as herein shown and described, and for the purpose set forth.

WESLEY H. DUNN.

Witnesses:

JOHN H. SMITH,
GE. HARMON.