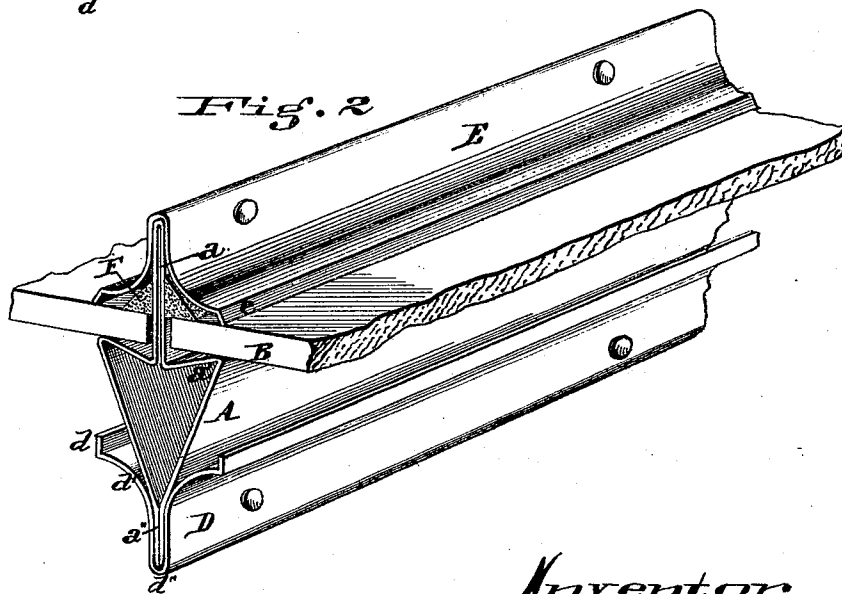
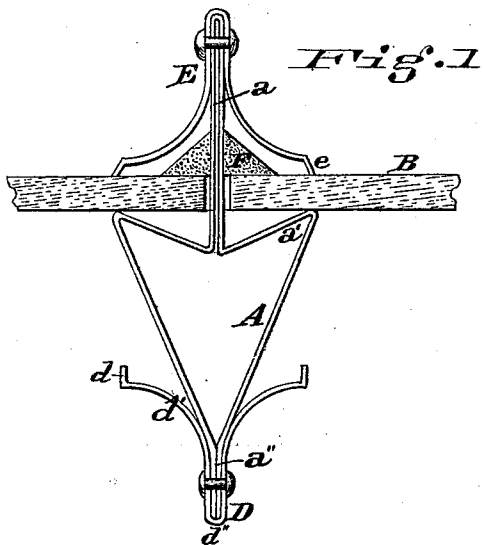


A. QUERNER & T. BURKE.

SKYLIGHT.

No. 171,856.

Patented Jan. 4, 1876.



Attest

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By
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UNITED STATES PATENT OFFICE.

AUGUSTUS QUERNER AND THOMAS BURKE, OF CINCINNATI, OHIO.

IMPROVEMENT IN SKYLIGHTS.

Specification forming part of Letters Patent No. **171,856**, dated January 4, 1876; application filed October 28, 1875.

To all whom it may concern:

Be it known that we, AUGUSTUS QUERNER and THOMAS BURKE, both of Cincinnati, Hamilton county, State of Ohio, have invented an Improvement in Skylights, of which the following is a specification:

Our improvement is designed as an improvement upon the Letters Patent 166,890, granted to us August 17, 1875, and is intended to enable us to manufacture the bar in such a manner as to materially cheapen its construction without materially lessening its value in use.

Our invention consists, first, in such a formation of the bar with its double gutters and cap as a whole as that the lower gutter is of the same form substantially as the cap, both being doubled back in a novel way over the inclosed webs of the bar proper, and one serving to connect, by riveting, the sheets of the bar at the bottom together, while the other stiffens the sheets of the bar at the top.

Our invention further consists, in connection with the bar having separated sheets at the bottom, of a lower gutter, which, by its peculiar formation and the addition of rivets, forms, by the use of a single sheet of metal, water-ways on both sides of the bar, and firmly connects the sheets of the bar together at this point.

Figure 1 is a sectional view of our improved bar. Fig. 2 is a perspective view of the same.

A is the supporting bar, bent together or double at the top to form the crown-web a , and then bent away under the glass at an acute angle to web a , to form a gutter, and also a supporting-web, a^1 , for the plate of glass B. The metal is then brought together at the bottom to form a double thickness, thus leaving out in this sheet the secondary gutter for draining the moisture from the under side of the glass, mentioned in our former patent. The bar thus far completed has a closed crown-web, a , of double thickness, and an intervening gutter and supporting-web, a^1 , for carrying off influx of water, soot, &c., and supporting the glass B. The only difference between the crown-

web a and base-web a^2 is the fact that the parts of the latter are separate or open—an unavoidable condition when forming the bar from sheet metal. However, I provide a cap, D, constructed as shown, by first forming the lip d , then the concave d^1 , having a straight elongation beyond, which, as an entirety, is duplicated, after bending over and back, at d^2 . This cap, when applied to the base of the bar, is so secured that the double elongation connected at d^2 embraces the two parts of the base-web a^2 , while the concave portions extend outward and upward to form gutters for draining the moisture from the under side of the glass, in place of those mentioned in former patent. As seen in the drawing, the cap D, thus constructed, is secured to the web a^2 by means of rivets, and serves to greatly stiffen the bar, while being of cheap construction. The cap E is a cap similar in formation to cap D, and is secured to crown-web a as said cap D is secured to base-web a^2 . The lips e rest upon the glass, and are preferably inclined from a perpendicular; but they may be similar to the lips d on cap D. To keep out soot, cinders, &c., I provide a line of putty, F, under cap E.

We claim—

1. A bar for skylights, having on its upper side a doubled cap, E, riveted to the web a , and a lower gutter of the same form, doubled to connect by rivets with the separate sheets of the bar at the lower side, substantially as set forth.

2. In combination with the bar A, the doubled single sheet D, forming both sides of the lower gutter, and serving, by riveting, to connect the separate sheets of the bar together, substantially as set forth.

In testimony of which invention we hereunto set our hands.

A. QUERNER.
THOMAS BURKE.

Witnesses:

JOHN E. JONES,
EDGAR J. GROSS.