

F. P. DOYLE.

Reflector.

No. 111,919.

Patented Feb. 21, 1871.

Fig. 1.

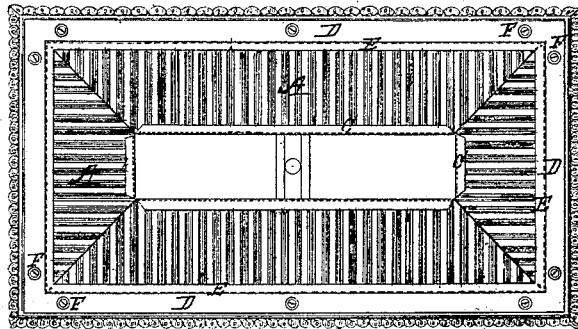


Fig. 2.

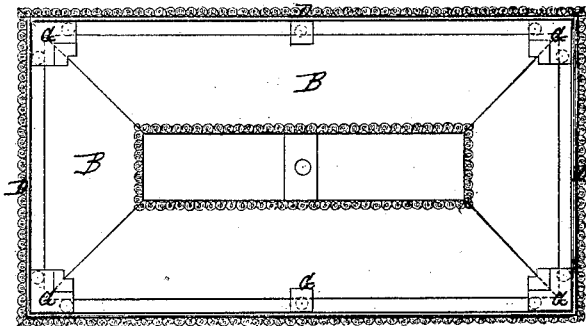


Fig. 3.

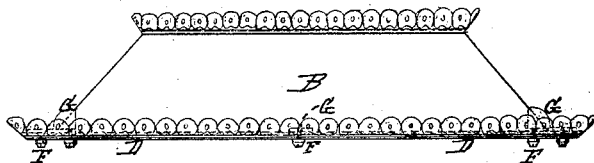
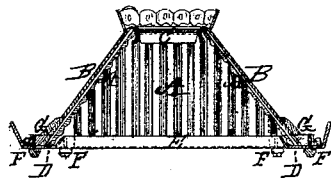


Fig. 4.



Witnessed:

William Keil
Emile Moly.

Inventor:

Francis P. Doyle

UNITED STATES PATENT OFFICE.

FRANCIS P. DOYLE, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND JOHN COOKE, OF SAME PLACE.

IMPROVEMENT IN REFLECTORS.

Specification forming part of Letters Patent No. 111,919, dated February 21, 1871.

To all whom it may concern:

Be it known that I, FRANCIS P. DOYLE, of the city, county, and State of New York, have invented certain Improvements in Gas-Light Reflectors, of which the following is a specification.

This invention relates to that class of devices employed in public halls, and especially in shop-windows, where it is placed at the top of the window for the purpose of reflecting the gas-light and throwing the light downward on the merchandise exposed for sale on the floor of the window. But the device as at present constructed, being composed of a metallic back or frame having lips at top and bottom for confining the corrugated glass in place, (all in one piece,) as a manufacturer I have found it to be very expensive and defective, for turning these lips over on the glass tended to break the glass, and also when the metallic frame expanded or contracted from the heat of the gas the breakage of the glass was the result, while turning the lips back and forth for removal of the broken glass rendered the frame worse than useless, and, besides, they could not be packed for transportation without injury to the glass from their own weight. These defects suggested to me the present invention, which consists of a metallic back having only one lip, and a separate confining-piece or follower having another lip attached to said back by screws and nuts, by means of which the turning down of the lips on the glass is dispensed with and provision made for contraction and expansion of

the frame, besides enabling me to pack the glass and frames in separate boxes for transportation, requiring very little ingenuity to put the parts together, as I will further explain by reference to the accompanying drawings, of which—

Figure 1 is a view of my reflector as it appears when attached to the upper side of a shop-window, looking upward and showing follower; Fig. 2, a view of reverse side; Fig. 3, a side elevation, and Fig. 4 a transverse section, of same.

In the said drawings, A A, &c., indicate the corrugated glass or metal; B, the metallic back, having a stationary lip, C, on its inner side for reception of and into which the glass slides. D is the metallic follower, having a stationary lip, E, for confining the glass in place, said follower being secured to the metallic back by screws F and nuts G, the latter being so formed as to embrace the slant sides of the back B, as shown in the drawings.

What I claim is—

The follower D, with lip E, screws F, and nuts G, when used in combination with the back B C and glass A of a gas-light reflector, substantially as and for the purposes described and set forth.

In testimony whereof I have hereunto set my signature this 2d day of April, 1870.

FRANCIS P. DOYLE.

Witnesses:

ARTHUR NEILL,
EMILE MOLTZ.