

W. K. Winant,

Shutter.

No. 111,162.

Patented Jan. 24. 1871.

Fig. 3.

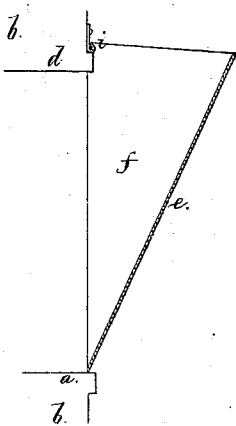


Fig. 2.

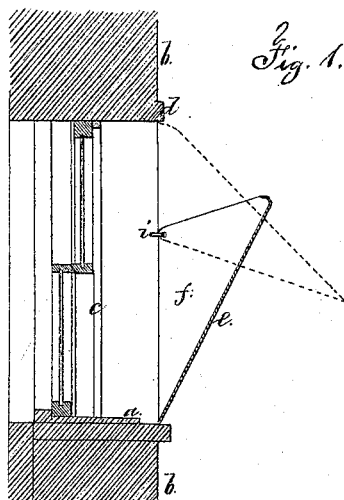
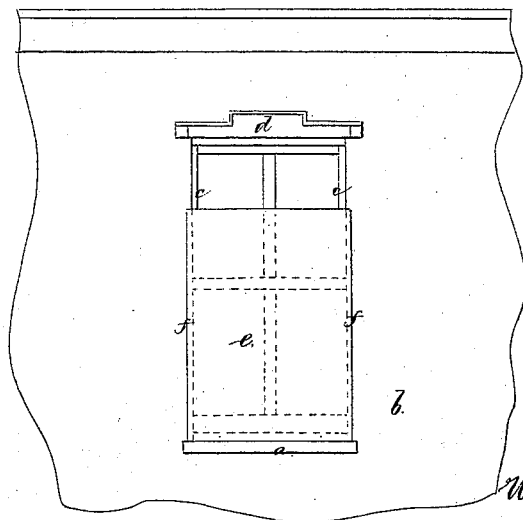


Fig. 1.



Witnesses,

Geo. A. Walker.
Chas. H. Smith

William K. Winant,

Lemuel W. Perrell
Atty.

United States Patent Office.

WILLIAM K. WINANT, OF RYE, NEW YORK, ASSIGNOR TO HIMSELF, WILLIAM WILMOT KISSAM, AND EMILY WINANT.

Letters Patent No. 111,162, dated January 24, 1871.

IMPROVEMENT IN WINDOW-PROTECTORS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM K. WINANT, of Rye, in the county of Westchester and State of New York, have invented an Improved Window-Protector; and the following is declared to be a correct description of the same.

This window-protector is designed to take the place of iron shutters, and protect the window and frame externally from fire, at the same time to act as a ventilator and a reflector, and it may be moved so as to become a window-screen or a substitute for an awning.

Buildings in cities are frequently close to each other, and heretofore iron shutters have been employed as a protection against fire. These are liable to be left open, are a source of constant trouble to open and shut, when closed exclude light, and when exposed to fire often buckle and warp, and being close to the window-frame, cause the same to catch fire from the heat.

My window-guard is always in a position for use, it does not require to be opened or shut, and it admits the light.

My invention consists in a window-guard, made of an inclined metallic shield rising from or near the window-sill, and with side pieces coming to the brick-work or face of the building, and attached by hooks or hinges.

By this construction there is an opening between the window and the upper part of the shield, to freely admit light and allow of ventilation, and the inner surface of the shield being painted white or lined with reflecting material, aids in lighting the room, rather than excluding light, because these guards will generally be used where the adjoining buildings exclude almost all the light, except that coming from above.

This guard will act to deflect smoke or flame rising from a story below, or from an adjacent building and will keep the window and frame from becoming hot, and produce an outward draught from the apartment that prevents smoke or sparks entering a window, even if open.

This window-protector is especially designed for tenement-houses as a protection from fire; it serves also to prevent persons from looking into the windows opposite; it may also act as an awning when the bottom of the guard is pressed out, and the upper end thrown back against the building.

In the drawing—

Figure 1 is a vertical section of a window, with my guard applied thereto; and

Figure 2 is an elevation of the same.

The building is of any desired character. I have shown the window-sill *a*, brick-work *b*, window-frame *c*, and lintel *d*.

The window-protector is made of sheet metal, the portion *e* being oblong or square, with sides *ff* of triangular shape, and the edges of these sides *f* come against the surface of the building, so as to protect the wooden window-frames *c*.

The protector or shield is attached at *i*, by hooks or hinges, and will hang in the position shown, or may be moved into the position shown by dotted lines, fig. 1, and there held to act as an awning.

The protector might be hinged near the top of the window, as seen in Figure 3, wherein the side pieces *ff* are shown as of a different shape to those in fig. 1.

This protector, lessening the risk of fire, will also decrease the rate of insurance, and the protector can be made at less cost than iron shutters, because a frame of metal is not necessary, and the shape of the protector is such that heat will not materially alter its configuration.

I claim as my invention—

The window-protector made of sheet metal *e*, with side pieces *ff*, attached to the building at *i*, by hinges, as and for the purposes set forth.

Dated November 2, 1870.

WILLIAM K. WINANT.

Witnesses:

CHAS. H. SMITH,
GEO. T. PINCKNEY.