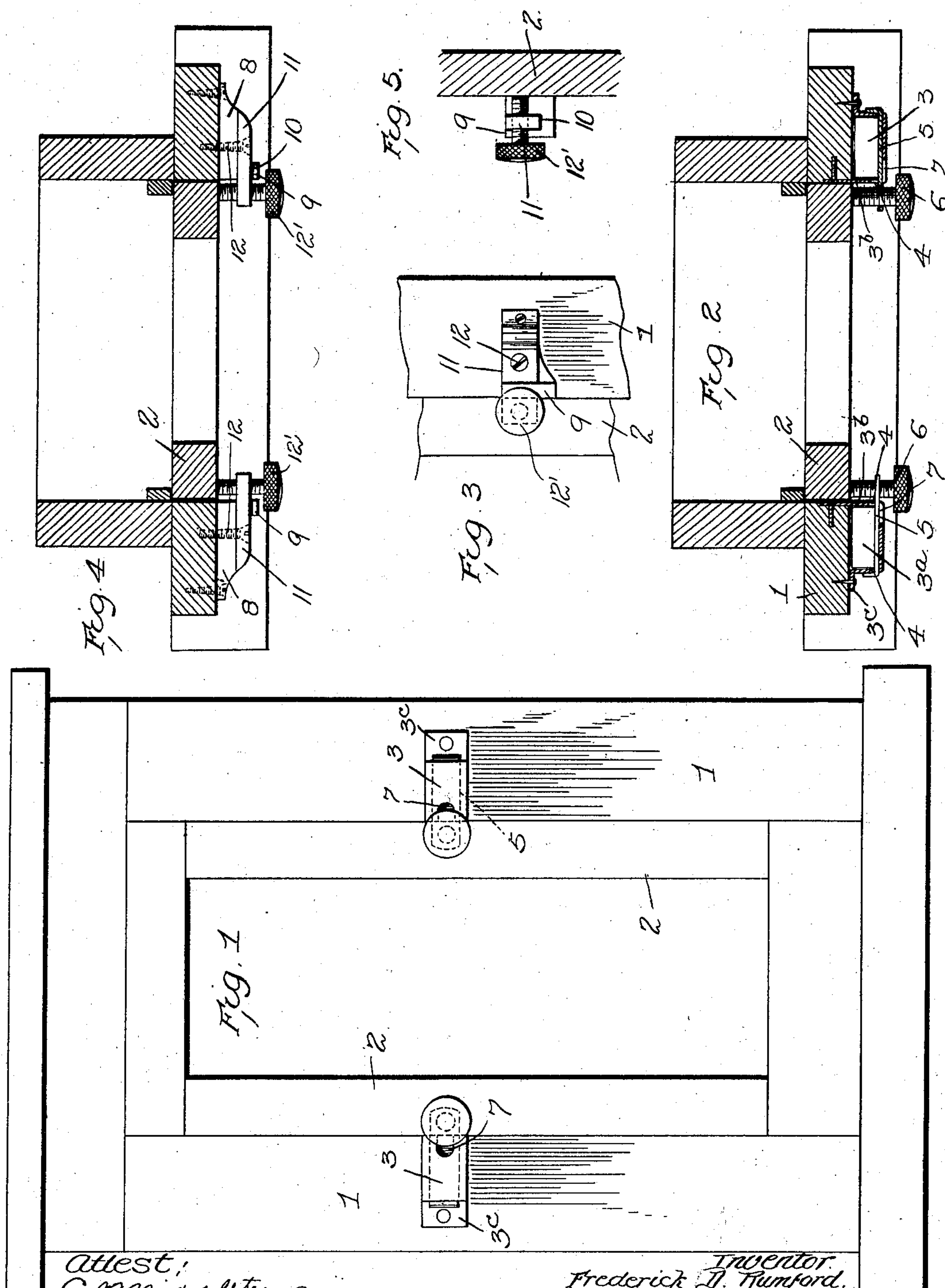


F. D. RUMFORD.
STORM WINDOW FASTENER.

APPLICATION FILED JUNE 10, 1903.

NO MODEL.



Attest:
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UNITED STATES PATENT OFFICE.

FREDERICK D. RUMFORD, OF SIOUX CITY, IOWA.

STORM-WINDOW FASTENER.

SPECIFICATION forming part of Letters Patent No. 741,721, dated October 20, 1903.

Application filed June 10, 1903. Serial No. 160,953. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK D. RUMFORD, a citizen of the United States, residing at Sioux City, Iowa, have invented certain new and useful Improvements in Storm-Window Fasteners, of which the following is a specification.

My invention relates to improvements in devices for fastening storm-windows in place; and the object of the invention is to devise an exceedingly cheap and simple construction which may be readily applied to the window-frame and by which the storm-sash may be readily clamped in place or removed without detaching the fastening devices from the window-frame.

The invention includes the particular construction hereinafter described, and set forth in the claims.

It is illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of a sufficient portion of a window with a storm-sash held in place to illustrate the application of the device. Fig. 2 is a sectional plan view. Fig. 3 is a front view of a modified form, and Fig. 4 is a sectional plan view, and Fig. 5 is an end elevation, of the same.

In the drawings numeral 1 indicates the window-frame, and 2 the storm-sash.

In the first form of fastening device I provide a metal bracket 3, which I preferably strike up into box form from a single plate of sheet metal. The sides 3^a are bent at right angles to the top and designed to abut against the face of the window-frame, while the bent-over end 3^b is considerably longer and designed to extend in between the sash and the edge of the window-casing, a suitable opening being provided for a fastening nail or screw. The other end, 3^c, is of like length, but is bent upwardly, so as to lie against the face of the window-frame and is likewise provided with an opening for the reception of a fastening nail or screw. Slots 4 are made in the end walls of the bracket, in which a sliding bar 5 is mounted, which carries at one end a clamping-screw 6, which is threaded through an opening in the end of the bar. When the bracket and sash are in place and the sliding

bar drawn out so as to overlap the face of the sash, the screw may be turned to bear against the face of the sash and hold it tightly in place. When it is desired to remove the sash, upon loosening the screw the bolt may be slid back to clear the edge of the sash. A recess 7 cut in the plate allows the screw to pass backward sufficiently to cause the end of the bolt to clear the edge of the sash. Movement of the bolt in the opposite direction is limited by a suitable stop or projection on the bolt, which may be formed by bending over the end of the bolt, as shown.

Instead of providing a sliding plate I may use a swinging latch, as shown in Figs. 3 and 4. In this form I prefer to make the brackets 8 of solid metal, preferably by casting, providing them with an outwardly-turned angular portion 9, having a slot 10, open at its upper end. The bolt or latch 11 is connected to the body of the bracket by a pivot-pin 12 and may thus be swung up into a vertical position to clear the edge of the sash or drop down into the slotted portion to overlap the sash. In this position the screw 12' may be adjusted to clamp the sash tightly in place.

Having thus described my invention, what I claim is—

1. A fastening device for storm-windows and the like comprising a bracket adapted to be secured to the face of the window-frame, a sliding bolt guided in said bracket with means for limiting its movement and the clamping-screw threaded through the end of a bolt, substantially as described.

2. A fastening device for storm-windows and the like comprising a bracket formed of sheet metal in box form adapted to be secured to the face of the window-frame, a bolt sliding in recesses or openings in the walls of said bracket, a stop or projection on one end of said bolt and a clamping-screw threaded into the opposite end, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK D. RUMFORD.

Witnesses:

PATRIC FRANCIS MANLEY,
WILLIAM ARTHUR CLINGAN.