

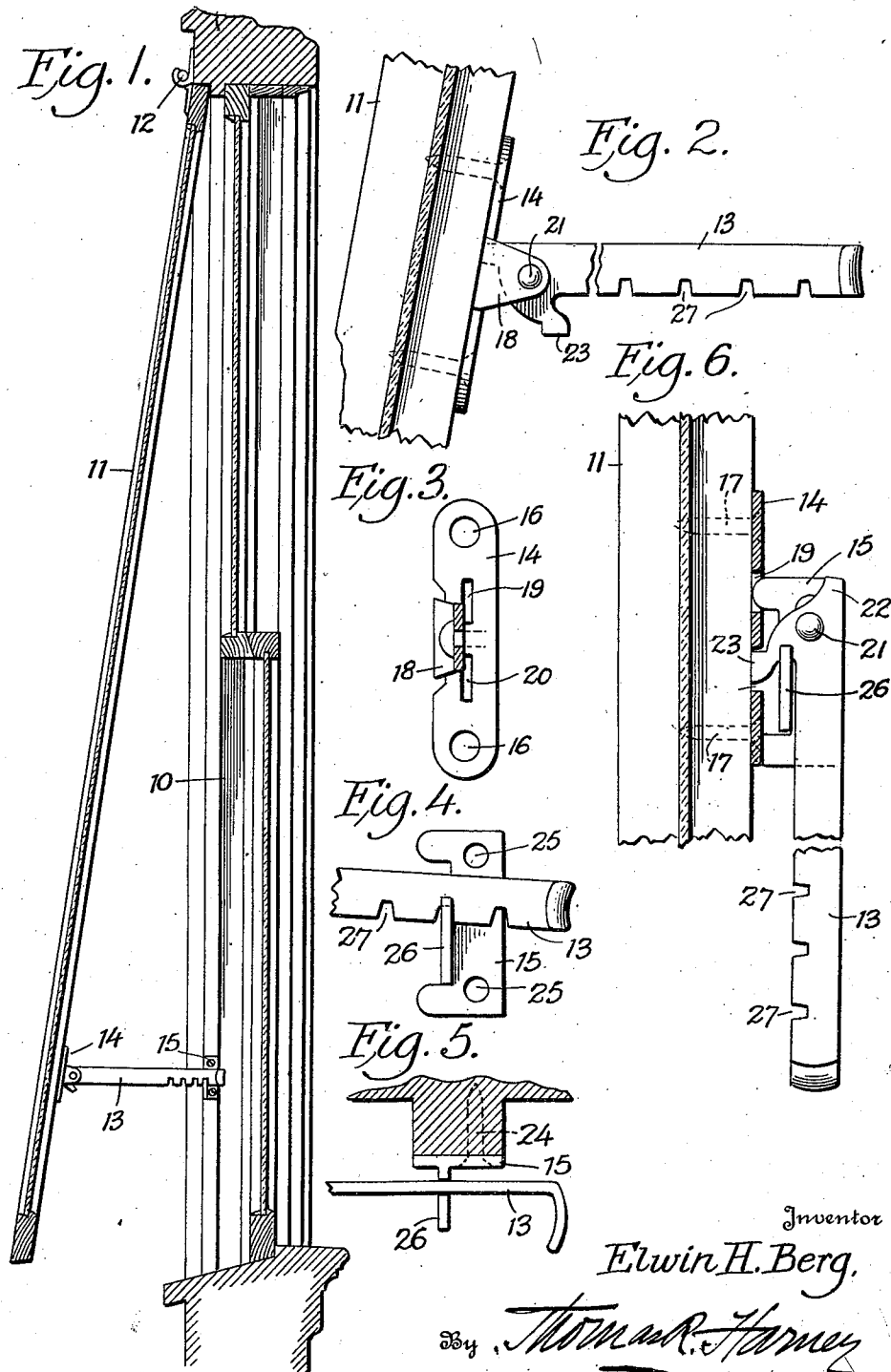
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ATTACHMENT FOR WINDOWS

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ATTACHMENT FOR WINDOWS.

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My present invention relates generally to attachments for windows, and more particularly to a storm sash fastener, my object being the provision of a simple inexpensive arrangement which will be effective and efficient in use for the usual and intended purposes and which will be anti-rattling especially in the open position of the storm sash as well as proof against accidental displacement from its adjusted position.

In the accompanying drawings which illustrate my present invention and form a part of this specification,

Figure 1 is a vertical section through a window frame provided with a storm sash and showing the latter open with my improved fastener in effective position,

Figure 2 is an enlarged side view of a portion of the storm sash with my improved fastener,

Figure 3 is a detail face view of the storm sash bracket,

Figure 4 is a face view of the window sash keeper with a portion of the latch arm engaging the same,

Figure 5 is a sectional top plan view of the parts shown in Figure 4, and

Figure 6 is a sectional view through a portion of the window frame and sash showing certain parts of the bracket as well as the latch arm and keeper.

Referring now to these figures and particularly to Figures 1, 2 and 6 I have shown a window frame generally indicated at 10, to the upper outer portion of which the upper end of a storm sash 11 is hingedly mounted as at 12. This storm sash closes against the outer surface of the window frame and is adjustably held in open position by means of a fastener which according to my invention includes a latch arm 13, a storm sash bracket 14 and a window frame keeper 15 associated together and cooperating in the particular manner which I will now describe.

The storm sash bracket 14 as seen particularly in Figures 2, 3 and 6 is a vertically elongated plate having upper and lower apertures 16 for the reception of screws and like fastening members 17 by which to secure the same flatwise against the inner surface of the storm sash at one side of the latter, this plate having at one side an angularly outstanding ear 18 and also having upper and lower slotted apertures 19 and 20.

The latch arm 13 as best seen in Figures 1, 2 and 6 is pivotally connected as by means of

a rivet 21 adjacent to one end to the ear 18 of the storm sash bracket 14 and is provided adjacent to its pivot with an endwise outstanding projection 22 adapted to enter the upper slotted opening 19 of the bracket 14 when the latch arm 13 is raised to an approximately horizontal position. This latch arm is also provided adjacent to its pivot 21 with an angularly outstanding projection 23 which enters the lower slotted opening 20 when the latch arm is in a vertical position as shown in Figure 6 with the storm sash closed.

The window sash keeper 15 thus seen in Figures 1, 4 and 5 is secured to one side of the window frame by virtue of fastening screws and the like 24 extending through upper and lower apertures 25 and is provided with an angularly outstanding strip 26 on which the lower edge of the latch arm is movable when the storm sash is moved to open and closed positions, the angular extension 23 of the latch arm extending over the keeper strip 26 and into the lower opening 20 of the bracket in the closed position shown in Figure 6 and the endwise extension 22 of the latch arm extending into the upper slotted opening 19 of the bracket when the storm sash is moved to open position so that the lower surface of this endwise extension engages the bracket at the lower end of its opening 19 and thus creates a tension which presses the lower edge of the latch arm more and more tightly against the upper edge of the keeper strip as the storm sash is moved outwardly. Adjacent to its free end the lower edge of the latch arm 13 has a series of notches 27 with tapering sides and it is thus obvious that the tension on the latch arm created in the above manner will serve to securely hold this latch arm in the fastened position when anyone of its notches comes into position over the edge. Not only is this true but at the same time the tension thus created on the latch arm will hold the same against rattling and in such manner as to avoid all danger of accidental displacement.

I claim:

1. A storm sash fastener including a sash carried bracket having an aperture, a latch arm pivoted at one end to said bracket to swing vertically with respect thereto and having a notched lower edge, and a window frame keeper having a notch engaging portion on which the lower edge of the arm

bears when the sash is open, said arm having a rigid extension at its pivoted end to enter the aperture of said bracket in the open position of the sash whereby to co-operate with the keeper and prevent rattling of the latch arm in the manner specified.

2. A storm sash fastener including a bracket, a latch arm pivoted at one end to said bracket and having a series of notches in its lower edge adjacent to its free end, and a window frame keeper having an outstanding portion along which said arm is movable to effective position and with

which the notches of the arm cooperate, said bracket having a slotted opening and said latch arm having an integral endwise extension adjacent to its pivot adapted to enter the bracket opening and bear down against the lower portion of the opening when the latch arm is moved upwards and outwards toward its effective position along the outstanding portion of the keeper.

In testimony whereof I have affixed my signature.

ELWIN H. BERG.