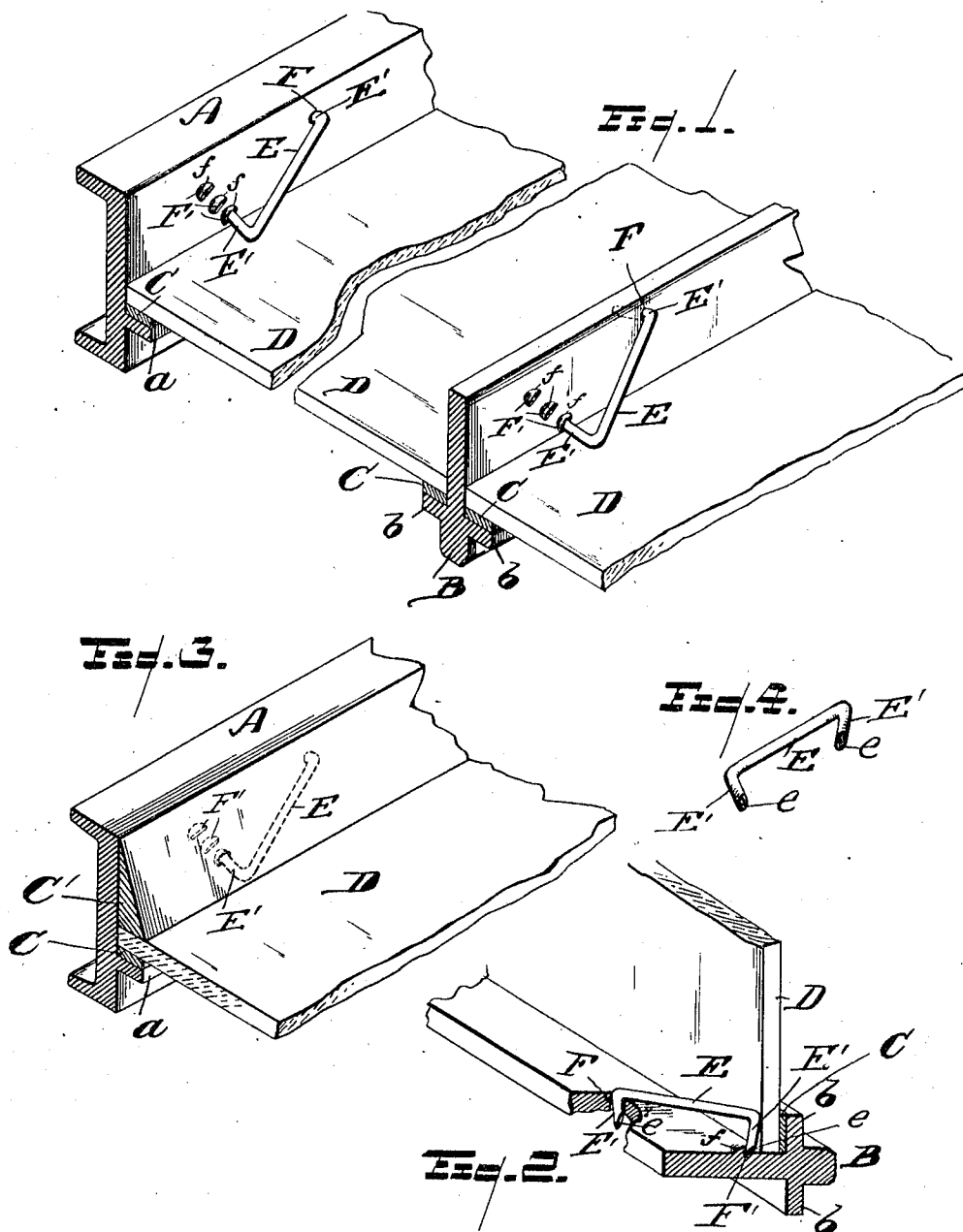


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METALLIC SASH GLAZING CLIP.
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METALLIC-SASH-GLAZING CLIP.

1,039,224.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM E. ULRICH, citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Metallic-Sash-Glazing Clips, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improvement in metallic sash glazing clip, shown in the accompanying drawings and more particularly pointed out in the following specification and claims.

The object of my invention is to provide a clip of staple-like form for use in connection with metallic sash to secure the glass in position and which may be employed alone or in combination with a liner of putty.

A further object is to provide an adjustable device to secure glass of varying thicknesses.

Other advantages and improvements will hereafter appear.

In the drawings accompanying this specification:—Figure 1 is a fragmentary perspective view with parts in section, of a metallic sash with the glazing clip in position. Fig. 2 is a fragmentary perspective view of one of the mullions of a metallic sash with the glass and the clip in position. Fig. 3 is a fragmentary perspective view of a metallic sash with the glass in position and a liner of putty covering the glazing clip which is indicated in dotted lines. Fig. 4 is a perspective view of the glazing clip.

Referring now to the letters of reference placed upon the drawings:—A indicates one of the members of a metallic sash having an inwardly projecting flange *a*.

B indicates one of the mullions of the sash, and *b* are oppositely disposed flanges.

C is a bedding of putty.

D denotes the glass.

E is a glazing clip of staple-like form, the legs E' of which are preferably inclined toward each other and beveled as indicated at *e*.

F are perforations in the members A and B to receive one of the legs of the clip E.

F' denotes a plurality of indentations formed in the members A and B on a radius

from the perforations F, and are designed to receive the swinging leg E' of the clip E. The indentations are provided on one side with an upstanding bur *f* which serves to further secure the clip against accidental displacement when adjusted.

Having indicated the several parts by reference letters, the construction and method of securing the glass in position will be readily understood. A bedding of putty C is first placed in position on the projecting flanges of the frame and mullions and the glass laid against the same. One leg of a plurality of clips is then inserted in the respective perforations F surrounding the glass, the swinging leg of each being forced against the glass, its beveled edge entering one of the several indentations F', best adapted to secure the glass in position. By giving the legs E' of the clip a slight inclination toward each other, the clip is held against accidental release from the frame. By forcing the pivotal leg of the clip through the perforation F until the body portion near the leg is adjacent to the mullion, it will be obvious that the pointed end of the swinging leg may be securely lodged in the indentations F' due to the resilient action of the clip itself.

If desired the clips may be covered with a liner of putty C' as indicated in Fig. 3, though this is not essential to securing the glass in the frame.

Having thus described my invention, what I claim is:—

1. Means for securing glass in a metallic sash frame, consisting of mullions in which are provided perforations to receive one leg of a plurality of engaging staple-like clips, also a plurality of indentations on a radius from the several perforations to receive the swinging leg of the clip, and a plurality of clips, one leg of each being pivotally engaged to the mullion, the other being free to enter any of the several radial indentations encircling the pivot, whereby the swinging end of the clip may be held in contact with the glass to secure the latter in position.

2. In means for supporting and securing glass in a sash frame, mullions provided with perforations to receive one end of a clip and also with indentations radially arranged from each of said perforations to receive the swinging end of the clip, and the clip, one leg of which is adapted to enter one

of the perforations, the other leg being free to swing into contact with the glass and to enter one of the several indentations, whereby the glass may be held in position.

5 3. In means for supporting and securing glass in a sash frame, mullions provided with perforations to receive one end of a staple-like clip and also with indentations radially arranged from each of said perforations to receive the swinging end of the clip, and the clip, one leg of which is adapted to enter one of the perforations, the other leg being free to swing into contact with the glass and to enter one of the several indentations, said legs being inclined toward each other whereby the clips are held against accidental dislodgment from the mullion.

15 4. In means for supporting and securing glass in a sash frame, mullions provided with perforations to receive one end of a clip and also with indentations radially arranged from each of said perforations to receive the swinging end of the clip, and the clip, one leg of which is adapted to enter one of the perforations, the other leg being free to swing into contact with the glass to enter one of the several indentations, the

ends of said legs being beveled to form a knife edge whereby they may more readily enter the depressions. 30

5. Means for securing glass in a metallic sash frame, mullions provided with perforations to receive one end of a clip and also with indentations radially arranged therefrom to receive the swinging end of the clip, said indentations having an upstanding bur on one side of the indentation to hold the swinging end of the clip against the glass when adjusted. 35

6. In means for securing glass in a sash frame, mullions provided with perforations to receive one end of a clip and indentations radially arranged from each perforation, a plurality of resilient clips, one leg of each pivoted in the respective perforations, the other being free to swing and enter the radial depressions encircling the pivots. 40 45

In testimony whereof, I sign this specification in the presence of two witnesses.

WILLIAM E. ULRICH.

Witnesses:

GRACE E. WYNKOOP,
SAMUEL E. THOMAS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."