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G. WEBSTER.

DEVICE FOR SECURING PANES OF GLASS TO METALLIC FRAMES.

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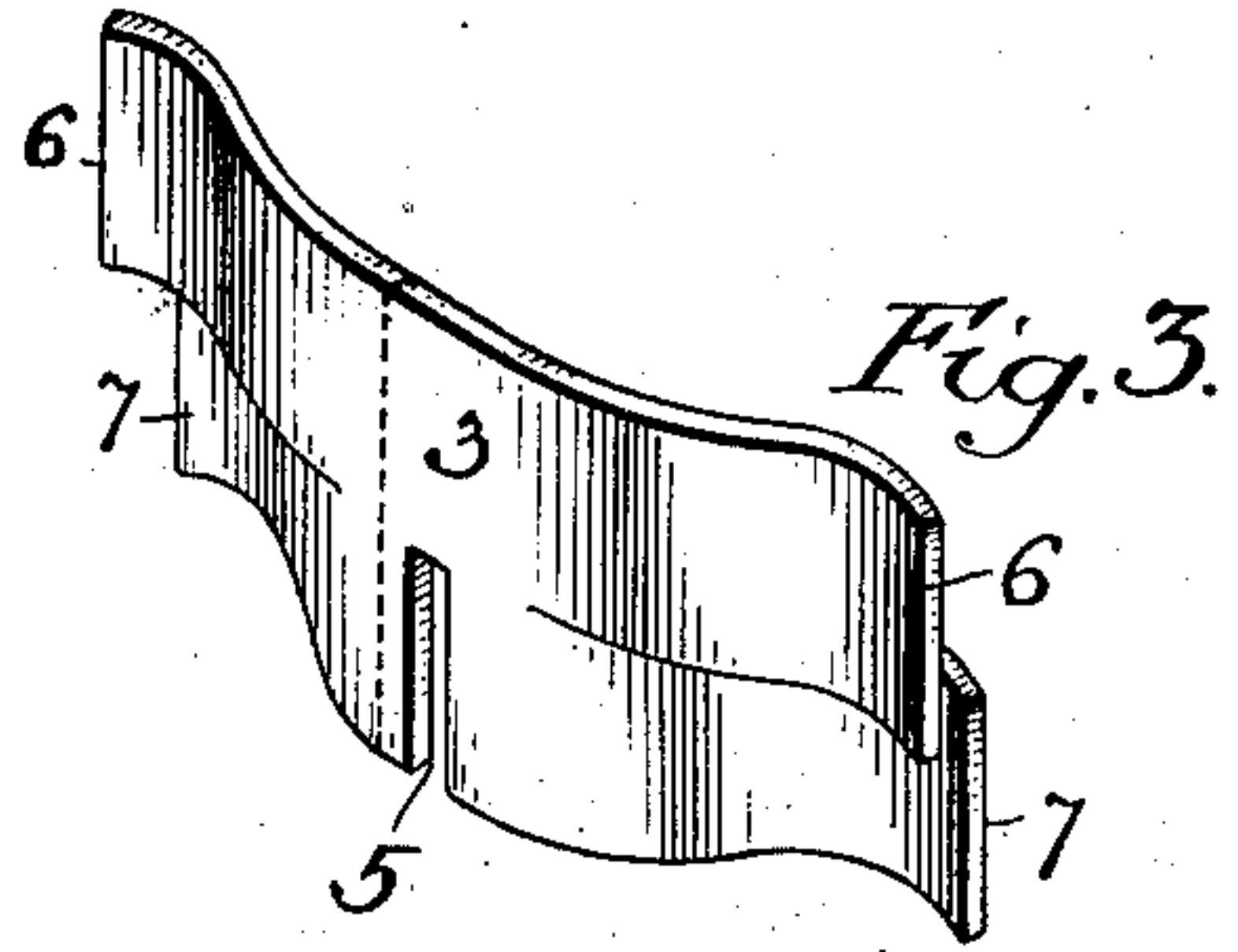
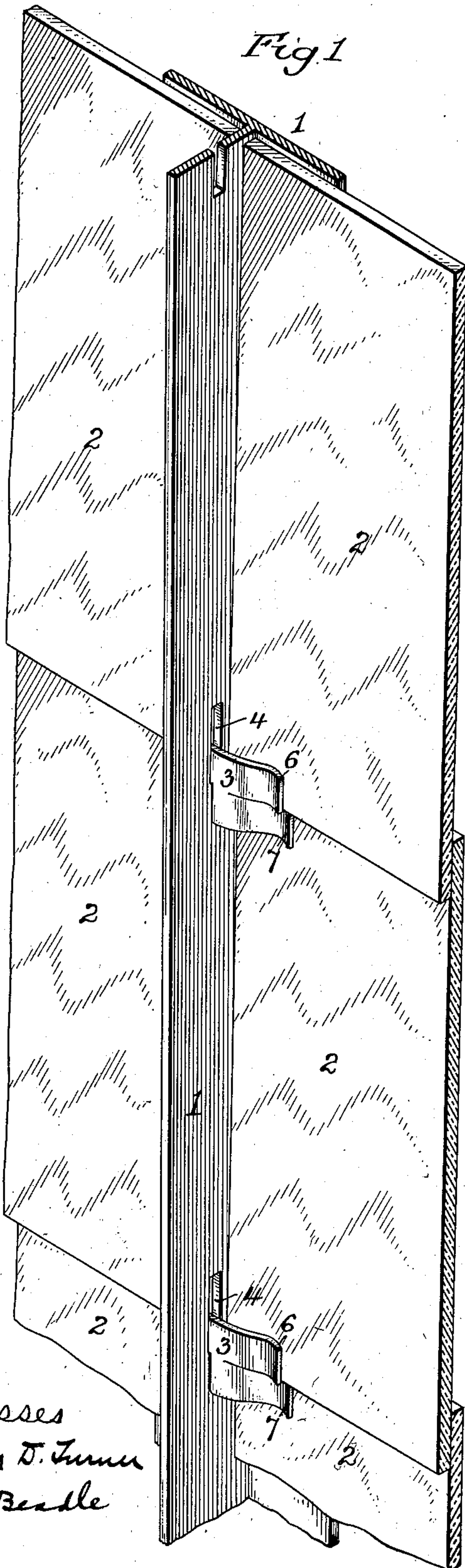
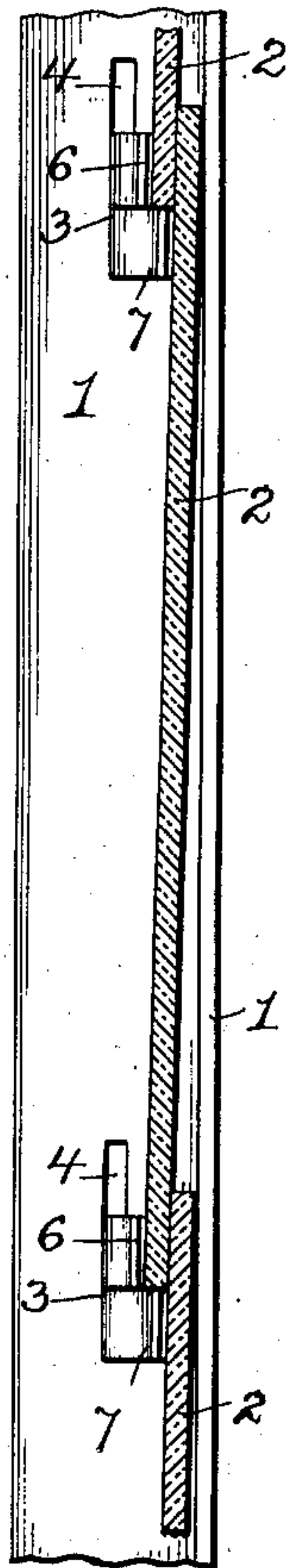


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

GUY WEBSTER, OF YORK, PENNSYLVANIA, ASSIGNOR TO YORK BRIDGE COMPANY, OF YORK, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

DEVICE FOR SECURING PANES OF GLASS TO METALLIC FRAMES.

No. 859,635.

Specification of Letters Patent.

Patented July 9, 1907.

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To all whom it may concern:

Be it known that I, GUY WEBSTER, a citizen of the United States, residing at York, Pennsylvania, have invented certain Improvements in Devices for Securing Panes of Glass to Metal Frames, of which the following is a specification.

The object of my invention is to provide a simple, cheap and effective device for securing panes of glass to the metallic framework of a building or to the bars of sashes used in connection therewith. This object I attain in the manner hereinafter set forth, reference being had to the accompanying drawing, in which

Figure 1 is a perspective view illustrating my invention as employed for the purpose of securing overlapping panes of glass to the vertical bar constituting part of a sash, or to the structural framework of a building; Fig. 2 is a vertical sectional view illustrating one of the retainers, and Fig. 3 is a perspective view of said retainer.

In the drawing, 1 represents a metallic bar which may be part of the structural framework of the building or may constitute one of the bars of a sash or other structure to which overlapping panes of glass 2 are to be attached, the bar 1 occupying a vertical or an inclined position. The bar 1 has, in the present instance, a central projecting web and oppositely extending flanges, which latter serve as seats for the panes of glass, and said projecting web has formed in it, at intervals, depending upon the length of the panes of glass, slots 4 for the reception of the clips 3, whereby the panes of glass are secured in position. Each of these clips consists of a strip of sheet metal, preferably provided with a central slot 5 extending from its lower edge about half way through it, and each of the outer ends of the strip has formed in it a central horizontal incision whereby this portion of the strip is divided into two fingers 6 and 7. The clip 3 is curved transversely and is preferably composed of steel or other resilient metal, so that when the clip has been passed through the slot 4 in the bar 1 until the slot 5 is in line with the web of the bar and then dropped down so as to engage the web and be retained in position laterally thereby, the fingers 6 and 7 are in position to press upon the faces of overlapping panes of glass 2 applied to the lateral flanges of the bar, the lower finger 7 being bent inwardly to a greater extent than the upper finger 6, whereby it not only serves to press the pane of glass towards the bearing flange of the bar but also underlaps and provides vertical support for the upper pane, as shown in Fig. 2.

A clip of the character described is extremely cheap, as it can, if desired, be made from scraps which are not available for other purposes, and it can be almost instantly applied to or removed from the supporting bar, so that the placing of panes of glass in position, or their removal, when necessary, can be very promptly effected.

When a clip of the character shown in Fig. 3, is used, the slot 5 may be dispensed with, in some cases, the curving of the strip being relied upon to prevent it from moving laterally through the slot 4 in the web of the supporting bar.

I claim:—

1. A clip for securing panes of glass to metallic frames, said clip consisting of a strip of sheet metal with slot for the reception of the bar of the frame and a split end forming fingers, one of which is bent in advance of the other.

2. A clip for securing panes of glass to metallic frames, said clip consisting of a strip of sheet metal split at its opposite ends to form retaining fingers, one bent in advance of the other, the strip also having a slot for the reception of a bar of the frame.

3. A clip for securing panes of glass to metallic frames, said clip comprising a curved or bent strip of resilient sheet metal having a slot for the reception of a bar of the frame.

4. A clip for securing panes of glass to metal frames, said clip consisting of a curved or bent strip of resilient sheet metal slotted for the reception of a bar of the supporting frame and split to form fingers, one of which is bent in advance of the other.

5. The combination of a metallic bar having a flange constituting a bearing for a pane of glass and a web disposed at an angle to said flange and having slots therein, and clips for the glass panes capable of being passed through said slots, said clips being split to form fingers for bearing upon the glass panes, one of said fingers being bent in advance of the other so as to provide also a vertical support for the overlapping pane.

6. The combination of a metallic bar having a flange constituting a bearing for a pane of glass and a web disposed at an angle to said flange and having slots therein, and clips for the glass panes capable of being passed through said slots, said clips being slotted for the reception of the web and being therefore, laterally retained thereby and each clip being split to form fingers for bearing upon the glass panes, one of said fingers being bent in advance of the other so as to provide also a vertical support for the overlapping pane.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

GUY WEBSTER.

Witnesses:

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