S. C. MacDOWNEY.

JOINT CONNECTION.

APPLICATION FILED JAN. 15, 1913.

1,165,990.

Patented Dec. 28, 1915.

2 SHEETS—SHEET 1.

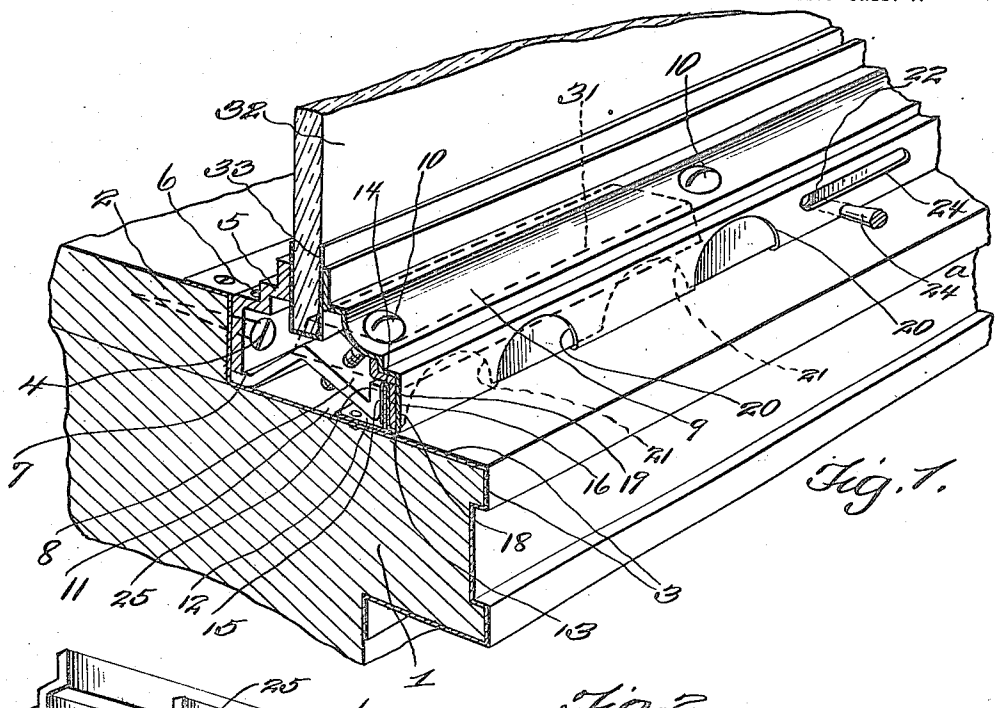


Fig. 1.

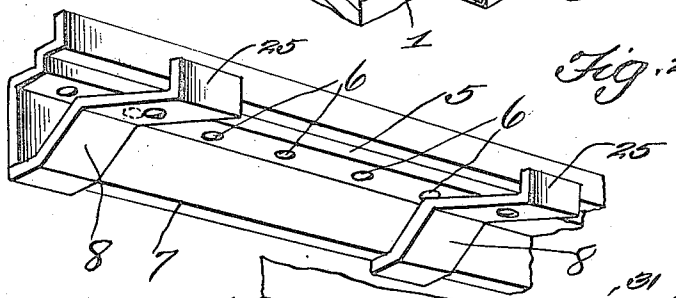


Fig. 2.

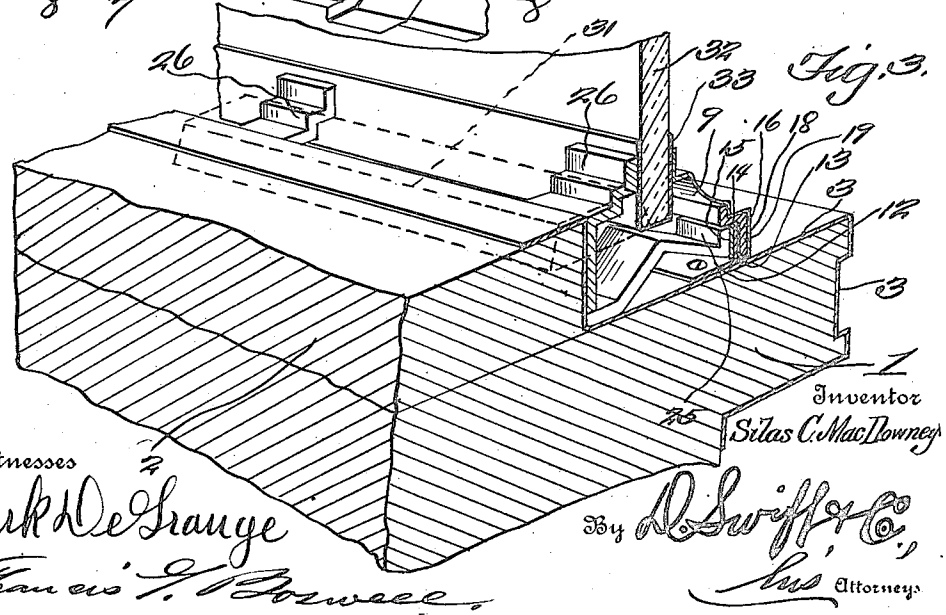


Fig. 3.

Witnesses

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2 SHEETS—SHEET 2.

Fig. 4.

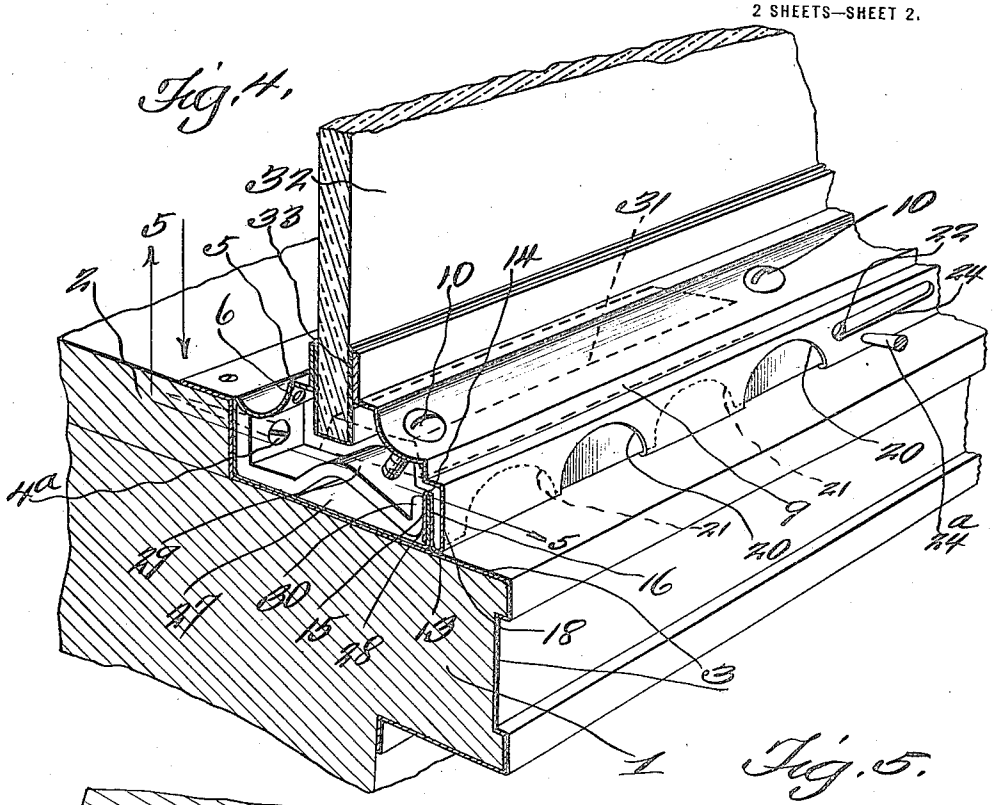
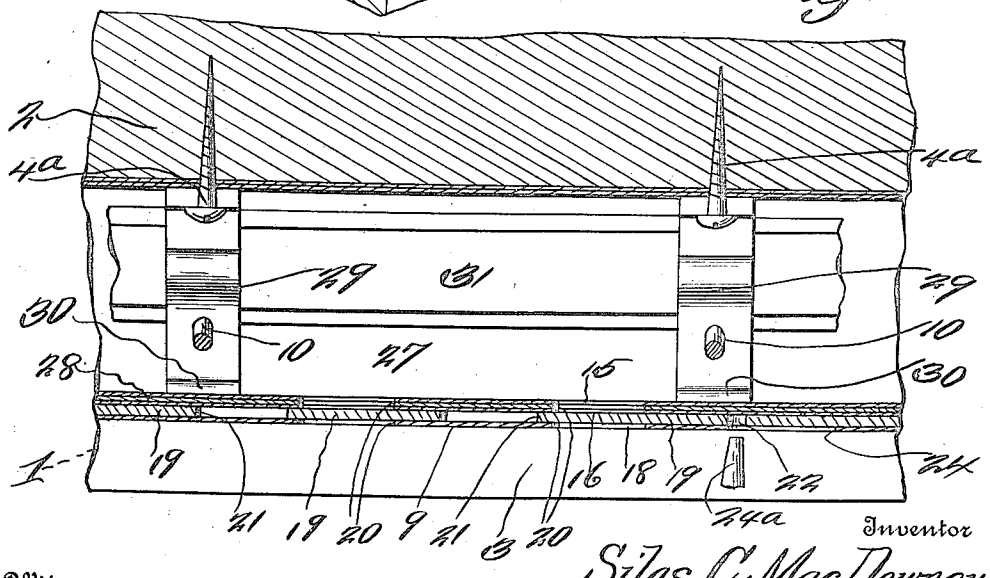


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

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JOINT CONNECTION.

1,165,990. Specification of Letters Patent. Patented Dec. 28, 1915.

Application filed January 15, 1913. Serial No. 742,158.

To all whom it may concern:

Be it known that I, SILAS C. MACDOWNEY, a citizen of the United States, residing at 747 East Fortieth street, Chicago, Illinois, in the county of Cook and State of Illinois, have invented a new and useful Joint Connection; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to sash bars or glass holding bars generally, and more particularly to a new and useful lock joint between the bars.

As one of the objects of the invention, it is the aim to provide the outside bar with ventilating openings and folded portions, which folded portions constitute guides to receive a ventilating strip or slide, adapted to be manipulated from the outside of the window, in order to open or close the ventilating openings.

Another object of the invention is to provide angular plates adjacent the inner face of the glass of the show window, held to the sill of the window by suitable means, such angular plates having tongues extending toward the outer bar, to receive screws or other suitable means, whereby the outer bar and the angular plates may be clamped together, in order to securely clamp the plate glass.

Another object of the invention is to provide an angular bar to be engaged by one of the folded portions of the outer bar, to strengthen and reinforce the structure, said angular bar being secured to the sill in any suitable manner.

There are disclosed in the drawings certain features of construction, but in practical fields these features may necessitate alterations, to which the patentee is entitled, provided the alterations are comprehended within the scope of what is claimed.

The invention comprises further features and combinations of parts, as hereinafter disclosed, shown in the drawings and claimed.

In the drawings: Figure 1 is a view in perspective, showing the glass holding bars constructed in accordance with the invention, showing the ventilating slide. Fig. 2 is a perspective view of the inner glass holding bar. Fig. 3 is a perspective view of a portion of a show window looking from the inside, showing the inner glass holding means constructed in sections or angular plates. Fig. 4 is a perspective view of a portion of the show window showing the inner glass holding bar bent and brought forwardly toward the outer glass holding bar and engaging one of the folded portions of the outer glass holding bar. Fig. 5 is a sectional view on line 5—5 of Fig. 4, showing members angular in cross section for bracing and reinforcing the structure.

Referring more particularly to the drawings 1 designates the sill having a raised portion 2. A facing plate 3 is screwed or otherwise secured to the sill and the raised portion. This facing plate conforms to the contour of the sill and the raised portion.

In Fig. 1 the inner glass holding bar, preferably angular in cross section, is secured to the raised portion 2 by the screws 4. This inner glass holding bar 5 is provided with a series of perforations 6, in order to allow of the necessary ventilation. The lower portion as at 7 of the inner glass holding bar, as shown in Fig. 2, is provided with a series of angular tongues 8, which extend toward the outer glass holding bar 9. Screws 10 pass through the outer glass holding bar, and are threaded into said tongue 8.

Upon the horizontal portion 11 of the facing plate an angular bar 12 is secured. The outer glass holding bar is folded twice upon itself longitudinally thereof, as shown at 13 and 14. Between the folded portions 15 and 16, the vertical part of the angular bar 12 is arranged, while between the folded portion 16 and the outer portion 18 of the outer glass holding bar a ventilating slide 19 is arranged. The folded portions and the outer portions of the outer glass holding bar are provided with arch openings 20, with which the openings 21 of the ventilating slide 19 are designed to register, when it is desired to ventilate the show window. The ventilating slide is provided with an aperture 22, which registers with a slot in the outer portion of the outer glass holding bar, adapted to receive a pointed tool or any other suitable device, in order to shift the slide, whereby the openings 21 of the slides may be brought into or out of registration with the openings 20. The slot of the outer glass holding bar is denoted by the numeral 24. The tongues 8 are provided with vertical portions 25 to engage the inner folded portion 15 of the outer glass holding bar, in order to brace and reinforce the structure.

In Fig. 3 the inner glass holding means are constructed in sections or angular plates 26, as shown in Fig. 3.

In Fig. 4 the inner glass holding bar is constructed with a horizontal portion 27 resting flat against the facing plate 3. This horizontal portion 27 extends toward the outer glass holding bar, and is provided with an upstanding portion or flange 28, which engages between the folded portions 15 and 16 of the outer glass holding bar. Also in Fig. 4 the tongues 8 and the angular plates are not used, but in their stead, the angular members 29 are provided having vertical portions 30, which engage the folded portion 15 of the outer glass holding bar, for the purpose of strengthening the structure. These members 29 are secured in place and to the raised portion 2 of the sill by the screws 4^a. The screws 10 also thread into the members 29.

In all the figures, however, buffer blocks 31 are provided, upon which plate glass 32 rests. These buffer blocks act to cushion the plate glass. In order to further cushion the plate glass, and to insure the same against displacement, adhesive tape or other like material 33 is secured between the glass and the inner and outer glass holding means. This adhesive tape is set forth and claimed in the co-pending application filed July 27, 1912, Serial No. 711,936.

It is to be ascertained from the foregoing that there has been devised simple and efficient plate glass holding means for a show window, and one which has been found practical, owing to the same not entailing but very little labor and trouble and expense in applying the same. Its practicability is further evident, owing to the fact that the ventilating slide can be manipulated from the outside of the show window, thereby eliminating the necessity of removing the articles on display from the show window.

The invention having been set forth, what is claimed as new and useful is:—

1. In a window-construction of the character described, the combination of a sheet-metal member having a portion adapted to bear against the outer face of a pane of glass and extending downwardly and outwardly and terminating in a portion folded upon itself to form three parallel apertured portions spaced away from one another providing a downwardly-extended outer part, an upwardly-extended central portion disposed inwardly of said outer part, and a downwardly-extended portion inwardly of said central part, an upwardly-projecting holding-means accommodated between said central upwardly and inner downwardly extended parts and constructed not to interfere with the ventilation through said apertures, and an apertured slide received between such outer downwardly and central upwardly extended portions and adapted to be moved to shift its apertures into and out of register with the apertures of said parallel portions, substantially as described.

2. In a window-construction of the character described, the combination of a sheet-metal member having a marginal portion adapted to bear against the outer face of a pane of glass and extending downwardly and outwardly and terminating in a portion folded upon itself to form three parallel apertured parts spaced away from one another providing a downwardly-extended outer part, a central upwardly-extended part, and an inner downwardly-extended part, an upwardly-projecting holding means accommodated between said central and inner parts and constructed not to interfere with the ventilation through said apertures, an apertured slide received between said outer and central parts and adapted to be moved to shift its apertures into and out of register with the apertures of said parallel parts, and a brace bearing against the inner face of said inner part, substantially as described.

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

SILAS C. MacDOWNEY.

Witnesses:

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HUGH H. PARKS.