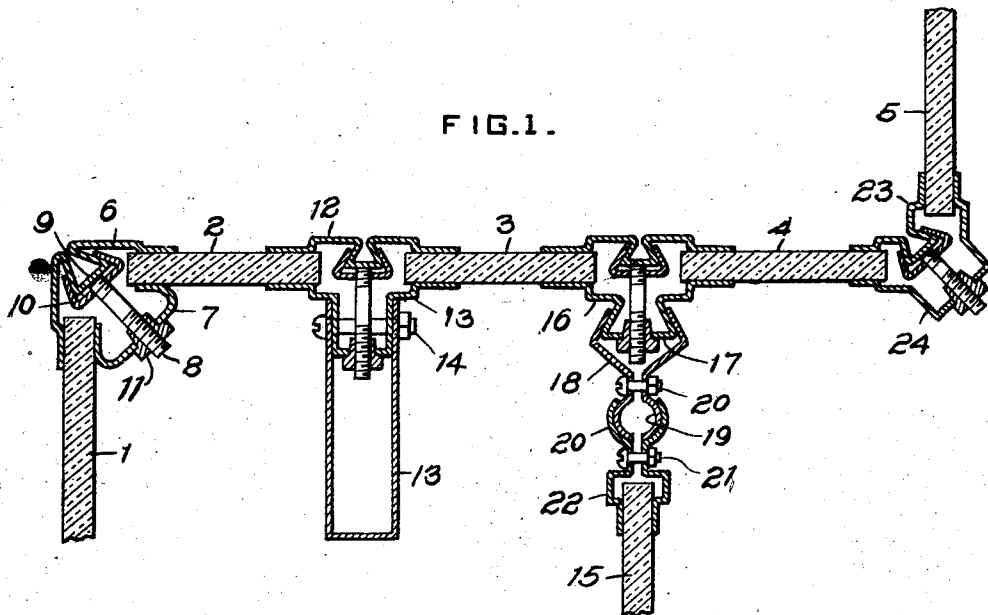
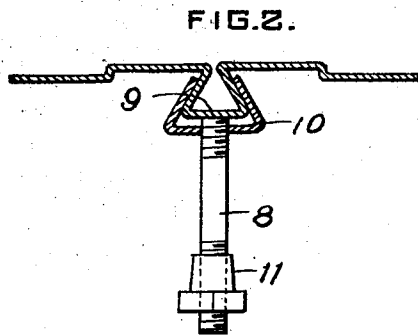
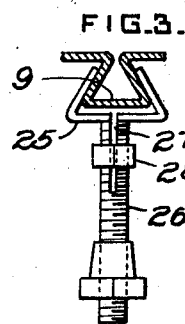
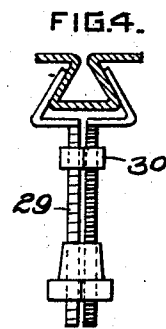
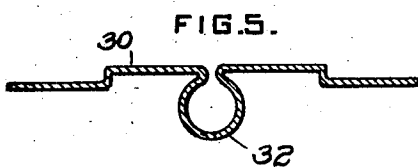
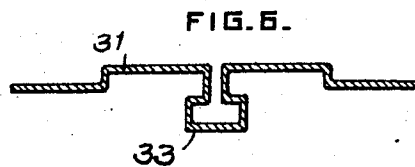


Aug. 4, 1925.

1,548,083

C. B. YOUNG ET AL
STORE FRONT CONSTRUCTION
Filed Sept. 24. 1921



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and
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by
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UNITED STATES PATENT OFFICE.

CHARLES B. YOUNG AND CHARLES J. CASPAR, OF PITTSBURGH, PENNSYLVANIA, ASSIGNORS TO PITTSBURGH PLATE GLASS COMPANY, A CORPORATION OF PENNSYLVANIA.

STORE-FRONT CONSTRUCTION.

Application filed September 24, 1921. Serial No. 502,981.

To all whom it may concern:

Be it known that we, CHARLES B. YOUNG and CHARLES J. CASPAR, citizens of the United States of America, and residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Store-Front Constructions, of which the following is a specification.

The invention relates to store front construction and particularly to the corner and division bars. It has for its objects the simplification and cheapening of corner and division bar construction, and the provision of one in which the labor of installation is reduced to a minimum. Certain embodiments of the invention are illustrated in the accompanying drawings, wherein:

Figure 1 is a horizontal section through the improved store front construction. Fig. 2 is an enlarged detail section through the front strip and one of the holding clips mounted thereon. Fig. 3 is a plan view of a modified form of bolt and clip construction. Fig. 4 is a view similar to that of Fig. 3 of a modified construction. And Figs. 5 and 6 are sections through modified types of front strips involving the use of dove-tails of different cross section.

Referring first to Fig. 1, the reference numerals 1, 2, 3, 4 and 5 designate sheets of glass to which a store front construction is applied. Referring to the corner bar construction at the left of Fig. 1, 6 is the outside or front strip and 7 is the inside or back strip, both of such strips being formed of sheet metal, the back strip being provided at suitable intervals with perforations to receive the securing bolts 8. The front strip 6 is bent inward at its center to provide the dove-tail portion 9. The bends in the metal are arranged so that the crack extending along the front side of the strip at the opening into the dove-tail is of very slight width, the curved portions of the metal practically coming into contact at this point. The dove-tail portion 9 is engaged by a series of clips 10 slidably mounted on the portion 9 and being held in adjusted position by means of the securing bolts 8 which are threaded through the clips at their forward portions so that on rotating the bolts a clamping pressure is applied to hold the clips in any position to which they may be adjusted. The rear ends of the bolts are also threaded

and are engaged by nuts 11, such nuts being preferably of the conical form illustrated and extending partially through the perforations in the back strip 7.

The construction at the division bar located at the right of the corner bar just described is similar to that of the corner bar except that the front and back strips 12 and 13 are shaped somewhat differently to conform to the location of the device as a division bar. When it is desired to use a stiffener at this point the channel member 13 is employed, such channel member being of sheet metal and being held in place by the transverse bolts 14. The clips and securing bolts are the same as above described in connection with the corner bar.

The construction of the division bar at the right of that just described illustrates the application of the principle where a connection is to be made to another sheet of glass 15. In this construction the back strip 16 has a dove-tail portion 17 which is engaged by a pair of clip members 18 provided at their inner ends with the semi-circular parts 19 and held in position by the bolts 20. The sheet 15 is secured to the parts 19 by the grip members 20 held by the bolts 21 and provided at their rear sides with the gripping edges 22 engaging the opposite sides of the sheet 15.

The corner bar construction at the extreme right of Fig. 1 is the same as that of the corner bar previously described except that the inner and outer strips 23 and 24 are differently shaped to fit the difference in location. The clips and holding bolt constructions are the same as those heretofore described in connection with other parts of the construction.

Fig. 3 illustrates a modified form of clip and bolt construction in which the clip members 25 are made integral with the bolt 26, the forward end of the bolt being slotted as indicated at 27. The portion of the bolt to the rear of the clips is threaded and carries a nut 28. The distance between the clips 25 is such that when the device is fitted over a dove-tail portion like the portion 9 of Fig. 1, the clip may be slipped along to its desired position, after which the tightening of the nut 28 holds the device in its adjusted position.

Fig. 4 illustrates a modification of the construction of Fig. 3 wherein the slot 27 of

Fig. 3 is extended throughout the length of the bolt, thus providing the two similar parts 29. These parts may be fitted over a dove-tail and clamped in position by applying the nut 30.

Figs. 5 and 6 illustrate two different forms of front strips 30 and 31, such strips differing from those of Fig. 1 in the matter of the dove-tail portions 32 and 33. This construction is similarly applicable to use in connection with corner bars following the arrangement illustrated in Fig. 1. In all cases the dove-tail part of the bar, in addition to its function of holding the clips, has the further important function of giving a large degree of stiffness to the bars.

What we claim is:

1. In combination in a store front construction, a pair of glass sheets having their edges in opposition but spaced apart, a front strip of sheet metal having its side edges in engagement with the front faces of the glass sheets and having a central dove-tail portion converging forwardly lying in the space between the edges of the sheets to the rear of said side edges and opening forwardly, a back strip also of sheet metal having its edges engaging the rear faces of the glass sheets and provided at intervals with perforations, and holding bolts extending through the perforations and provided with holding clips fitting around the converging sides of said dove-tail portion of the front strip and adjustable along such front strip.

2. In combination in a store front construction, a pair of glass sheets having their edges in opposition but spaced apart, a front strip of sheet metal having its side edges in engagement with the front faces of the glass sheets and having a central dove-tail

portion converging forwardly lying in the space between the edges of the sheets to the rear of said side edges and opening forwardly, a back strip also of sheet metal having its edges engaging the rear faces of the glass sheets and provided at intervals with perforations, holding bolts extending through the perforations and provided with holding clips fitting around the converging sides of said dove-tail portions of the front strip and slidable longitudinally thereon, and means whereby the clips are clamped against longitudinal movement on the dove-tail portion.

3. In combination in a store front construction, a pair of glass sheets having their edges in opposition but spaced apart, a front strip of sheet metal having its side edges in engagement with the front faces of the glass sheets and having a central dove-tail portion converging forwardly lying in the space between the edges of the sheets to the rear of said side edges and opening forwardly, a back strip also of sheet metal having its edges engaging the rear faces of the glass sheets and provided at intervals with perforations, clips slidably mounted upon the converging sides of said dove-tail portion, and securing bolts extending through the perforations in the back strip and threaded at their front ends through the clips, such bolts being adapted to engage the rear face of the dove-tail portion and hold the clips in adjusted positions longitudinally of the dove-tail portion.

In testimony whereof, we have hereunto subscribed our names this 21st day of September, 1921.

CHARLES B. YOUNG.
CHAS. J. CASPAR.