Dec. 1, 1931. W. ASMUS 1,834,512

CORNER BAR FOR STORE FRONT CONSTRUCTIONS

Filed Aug. 27, 1928

Fig. 1.

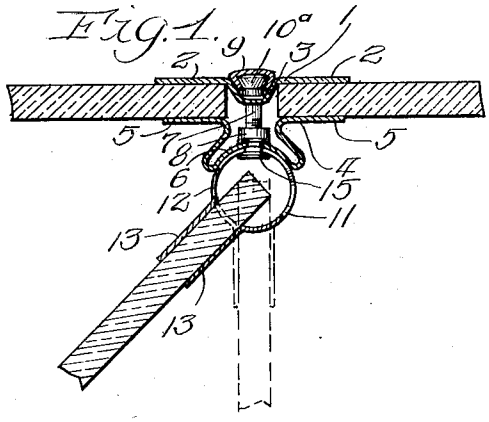


Fig. 2.

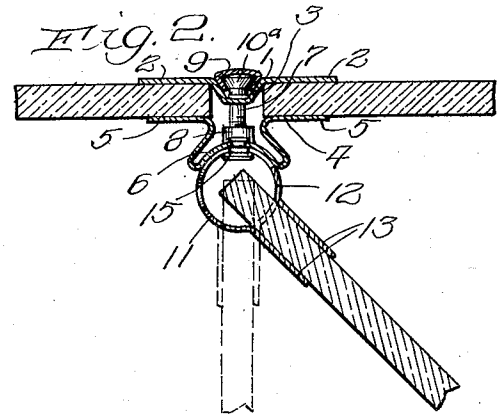


Fig. 3.

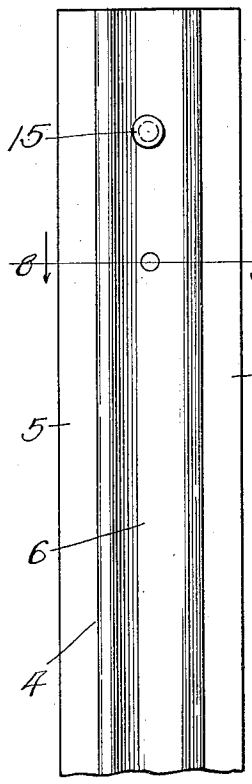


Fig. 4.

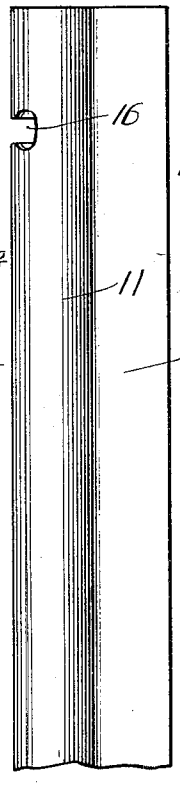


Fig. 5.

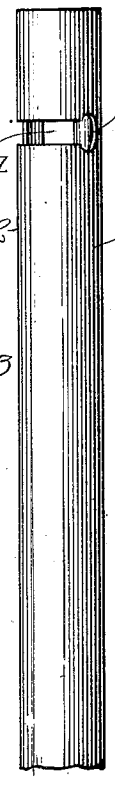


Fig. 6.

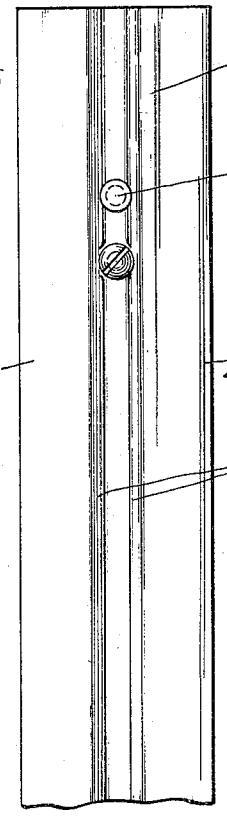


Fig. 7.

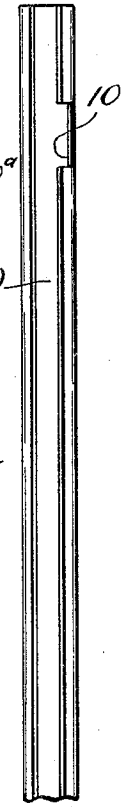
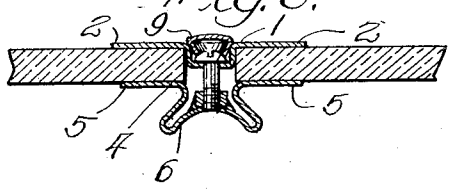


Fig. 8.



Inventor:
William Asmus
By Wallace R. Lane.
Atty.

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UNITED STATES PATENT OFFICE

WILLIAM ASMUS, OF NILES, MICHIGAN, ASSIGNOR TO THE KAWNEER COMPANY, OF NILES, MICHIGAN, A CORPORATION OF MICHIGAN

CORNER BAR FOR STORE FRONT CONSTRUCTIONS

Application filed August 27, 1928. Serial No. 302,297.

This invention relates to corner bars, and more particularly to a corner bar adapted for use in store front constructions.

Among the objects of my invention are to provide a novel corner bar which is flexible with reference to the degrees or angle in setting; further to provide a corner bar which will accommodate a plurality of panes of glass; further to provide a novel construction of corner bar which can be reversed, thus allowing for an angular setting of from zero to 180 degrees; further to provide a novel construction of corner bar in which the bead or finishing strip is set from the outside and thus permitting an installation by one man, the glass being set and tightened from the outside and the bead then slipped into position; further to provide a construction of maximum simplicity, efficiency, and ease of assembly; and such further objects, advantages and capabilities as will later more fully appear and are inherently possessed by my invention.

My invention further resides in the combination, construction and arrangement of parts illustrated in the accompanying drawings, and while I have shown therein a preferred embodiment, I desire it to be understood that the same is susceptible of modification and change without departing from the spirit of my invention.

In the drawings:

Fig. 1 is a fragmentary view in horizontal cross section of a store front construction and corner bar.

Fig. 2 is a view similar to Fig. 1 but disclosing the corner bar in reversed position.

Fig. 3 is a fragmentary view in front elevation of the construction of the bar, the same being shown with the corner bar removed.

Fig. 4 is a fragmentary view in side elevation of the corner bar, and

Fig. 5 is a view in front elevation of the same.

Fig. 6 is a fragmentary view in rear elevation of the bar and showing the means for attaching the outside bead or finishing strip.

Fig. 7 is a fragmentary view in front elevation of the bead or finishing strip, and

Fig. 8 is a view in horizontal cross section taken on the line 8—8 of Fig. 3.

Referring to the drawings, the bar includes an outer retaining member 1 provided with resilient flanges 2, 2 and a central channel or depressed portion 3, and an inner retaining member 4 provided with resilient flanges 5, 5 and a central curved portion 6. The edges of the outer panes of glass are held between the resilient flanges 2 and 5 of the inner and outer retaining members in such a manner as to yield under abnormal pressure, and also to allow for the expansion and contraction of the glass. In order to secure the outer retaining member 1 to the inner member 4, I provide a plurality of studded screws 7, the heads of which screws or other retaining means are seated in the channel or depressed portion 3 and pass through screw openings therein and to threaded raised portions 8 mounted on the curved portion 6 of the inner retaining member.

It will thus be seen that the outer retaining member is secured in place from the outside and which permits an installation and alignment of the glass by but one man. The glass is set and is tightened from the outside and thus the assemblage of the entire store front is greatly facilitated and expedited.

In order to provide a smooth outer surface and to cover and protect the retaining means from the elements, I provide a bead or finishing strip 9 which is adapted to be readily placed and moved to its normal position after the retaining means have been tightened so as to draw up the retaining members and secure the glass in position. This bead is substantially V-shaped, with one of its sides provided with a plurality of notches 10, the number of notches depending upon the length of the bars. These notches or openings are spaced apart so as to register with retaining heads 10*a* secured in the base of the channel 3. In order to secure the bead or finishing strip in position, the bead or strip is first placed so that the apertures or notches register with the retaining head and then the bead or strip is turned so that the retaining heads are completely within it. The bead or strip is then

slid along the channel so that the notches or openings are no longer in register, when this bead or strip is locked in position.

A corner bar 11 is provided with a curved longitudinal portion 12 and resilient flanges 13, 13. The curved portion 12 of the corner bar fits into the curved portion 6 of the inner retaining member, the corner bar being provided with cut-out portions 14 adapted to engage with retaining heads 15 attached to the inner retaining member. The number of cut-out portions depends upon the length of the bar, there being one cut-out portion for each retaining head. One end of the cut-out portion is enlarged as at 16 to allow for the insertion of a retaining head, the retaining head being provided with shoulders adapted to engage with the inner edges of the cut-out portion 14 on the corner bar.

The construction provides a substantially tight contact, allowing for rotation of the corner bar but allowing for no looseness or displacement of the contacting portions except when the enlarged portion 16 and the retaining head 15 are in register. The corner bar will accommodate all angles and is reversible as is shown clearly in Figs. 1 and 2 of the drawings.

While I have shown and described the particular form of my invention as applied to a store front construction, it is of course, obvious that it may be utilized in almost any construction for securing the edge or edges of glass in place.

Having thus disclosed the invention, I claim:

1. In a store front construction, the combination of an inner glass retaining member, an outer glass retaining member, means for connecting said glass retaining members, and a corner bar adjustably connected to and seated in said inner members for holding a pane of glass at any desired angle.

2. In a store front construction, an inner glass retaining member, an outer glass retaining member, means for connecting said glass retaining members, retaining heads on said inner member, a corner bar, said corner bar being provided with cut-out portions adapted to engage with said heads for holding the corner bar in any desired adjusted position.

3. In a store front construction, an inner glass retaining member, an outer glass retaining member, means for connecting said glass retaining members, retaining heads on said inner member, an adjustable corner bar, said corner bar being provided with cut-out portions adapted to engage with said heads for holding the corner bar in any desired adjusted position.

4. In a store front construction, an inner glass retaining member, an outer glass retaining member, means for adjustably connecting said retaining members, said inner member being provided with a curved portion, and a corner bar adapted to seat in the curved portion of said inner member for holding a pane of glass.

5. In a store front construction, an inner glass retaining member, an outer glass retaining member, means for connecting said members, said inner member having a curved portion provided with retaining heads, and a glass holding corner bar having cut-out portions adapted to engage said heads and be adjustable thereon for holding said bar at any desired position.

6. In a store front construction, an inner glass retaining member, an outer glass retaining member, means for connecting said members, said inner member having a curved portion provided with retaining heads, and a glass holding corner bar having cut-out portions adapted to engage said heads and be adjustable thereon for holding said bar at any desired position, the cut-out portions being so positioned as to allow the bar to be reversed for holding the glass at any desired angle.

7. In a store front construction, a glass retaining device comprising an inner member, an outer member, means for connecting said members, and a corner bar swingably carried by said inner member for holding a pane of glass at any desired angle.

8. In a store front construction, a glass retaining device comprising an inner member, an outer member, means for connecting said members, a corner bar in swingable engagement with said inner member for holding a pane of glass at any desired angle, and means inter-connecting said inner member and corner bar for retaining said bar in adjusted position.

9. In a store front construction, a glass retaining device comprising an inner member, an outer member, means for connecting said members, a corner bar engageable with said inner member and adapted to be angularly adjusted therewith for holding a pane of glass at any desired angle, and means interconnecting said inner member and corner bar for retaining said bar in adjusted position.

10. In a store front construction, a glass retaining device comprising an inner member, an outer member, means for connecting said members, and a corner bar engaged with said inner member and movable relative thereto for holding a pane of glass at any desired angle.

11. In a store front construction, a glass retaining device comprising an inner member, an outer member, means for connecting said members, and a corner bar provided with a cut-out portion adapted to engage a portion of said inner member for holding a pane of glass at any desired angle.

12. In a store front construction, a glass retaining device comprising an inner mem-

ber, an outer member, means for connecting said members, a corner bar adapted to hold a pane of glass at any desired angle, and retaining means on said inner member adapted to retain said corner bar but permitting angular adjustment of the same.

13. In a store front construction, a glass retaining device comprising an inner member, an outer member, means for connecting said members, and a corner bar in interlocking engagement with said inner member but movable relative thereto for holding a pane of glass at any desired angle.

In witness whereof, I hereunto subscribe my name to this specification.

WILLIAM ASMUS.