

No. 820,438

PATENTED MAY 15, 1906.

F. J. PLYM.
STORE FRONT CONSTRUCTION.
APPLICATION FILED JULY 8, 1905.

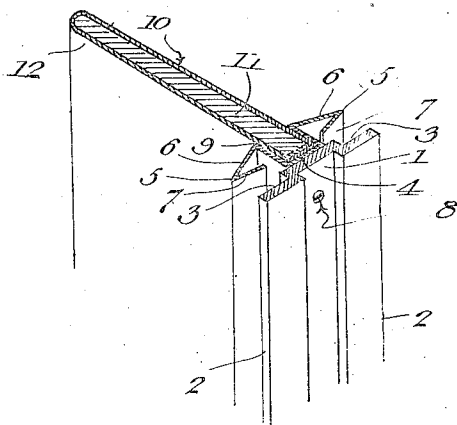


FIG-5,

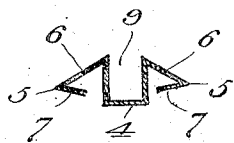


FIG-4,

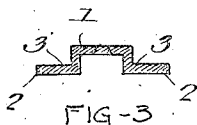


FIG-3

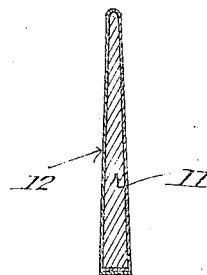


FIG-2,

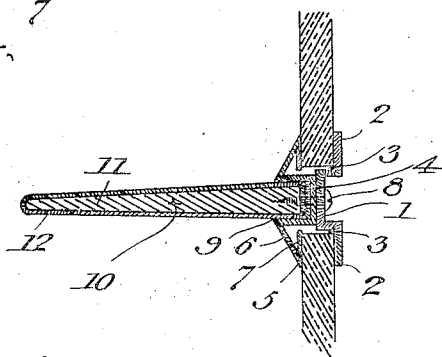


FIG-1,

WITNESESS.

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STORE-FRONT CONSTRUCTION.

No. 820,438.

Specification of Letters Patent.

Patented May 15, 1906.

Application filed July 8, 1905. Serial No. 268,833.

To all whom it may concern:

Be it known that I, FRANCIS J. PLYM, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented a new and useful Improvement in Store-Front Constructions, of which the following is a specification.

This invention relates to store-front construction, and more especially to the so-called "all-glass" type employing a sash-bar or mullion between lights of glass, and has for its object to produce a construction of the type outlined in which the sash-bar or mullion will engage the glass with a firm but yielding pressure, so as to insure a tight fit at all times and also automatically accommodate variation in the proportion of the parts due to variable expansion and contraction thereof or to other causes.

A further object is to produce an effective and reliable sash-bar or mullion of the type outlined which is of small size, neat and unobtrusive of configuration, and of simple, strong, and durable construction.

To these ends the invention consists in certain novel and peculiar features of construction and organization, as hereinafter described and claimed, and in order that it may be fully understood reference is to be had to the accompanying drawings, in which—

Figure 1 is a horizontal section at an intermediate point of the sash-bar or mullion and the lights engaging the same. Fig. 2 is a horizontal section of the stiffening rib or bar forming a part of the sash-bar or mullion. Fig. 3 is a horizontal section of the face-piece of the sash-bar or mullion. Fig. 4 is a horizontal section of the back-piece of the sash-bar or mullion. Fig. 5 is a sectional perspective view of the complete sash-bar or mullion.

In the production of a sash-bar or mullion embodying my invention I employ two essential elements—namely, a face-piece and a back-piece—and a third element, which is desirable though not absolutely indispensable. The face-piece is preferably made of metal pressed to provide a rearwardly-projecting longitudinal rib 1 and laterally-projecting flanges 2, the latter, in conjunction with the rib, forming recesses 3 at the rear side of the flanges and at opposite sides of the rib.

The back-piece of the sash-bar or mullion is preferably constructed of a strip of resilient metal bent to form a central longitudinal forwardly-projecting rib 4, said rib being

preferably of substantially U shape. The strip is also bent to form substantially V-shaped laterally-projecting flanges 5, each flange consisting, by preference, of the arms 6, diverging forwardly from the rib 4, and the arms 7, converging forwardly from the outer ends of arms 6 and disposed rearward of and contiguous to the flanges 2 of the face-piece.

The face-piece is secured in operative position in the store-front in any well-known or suitable manner, and the glass lights are placed in position with their inner edges fitting against the rear side of the face-piece flanges and against or near the opposite sides of the rib of the face-piece.

The back-piece has its rib fitted against the rear face of the rib of the face-piece and is secured in such position by one or more screws or equivalent fastening devices 8, said fastening devices by preference being also utilized to secure in the groove or hollow portion 9 of the back-piece the stiffening rib or bar 10, said stiffening-bar being preferably constructed of wood, as at 11, having a sheet-metal cover 12.

With the parts assembled in operative relation, as shown in Fig. 1, it will be apparent that the lights are yieldingly pressed by the resilient flanges on the back-piece against the flanges of the face-piece, said resilient flanges adapting themselves to the thickness of the lights and holding them firmly in position, it being also apparent that the sash-bar or mullion accommodates the expansion and contraction of the glass because the resilient flanges are capable of movement, not only along the lines of junction of arms 6 and 7, but also along the lines of junction of the former with the rib 4, the stiffening rib or bar maintaining the sides of the rib 4 against inward movement.

From the above description it will be apparent that I have produced a store-front construction embodying a sash-bar or mullion possessing the features of construction enumerated as desirable and which is of course applicable in the construction of show-cases and analogous structures.

Having thus described the invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A sash-bar or mullion, comprising a face-piece, a back-piece having a forwardly-projecting rib secured centrally to the face-piece and provided at opposite sides and inward of the face-piece with resilient flanges,

and means for stiffening said rib to prevent its sides from moving inwardly or toward each other.

2. A sash-bar or mullion, comprising a face-piece, a back-piece secured to the rear side of the face-piece and provided at opposite sides with resilient flanges substantially V shape in cross-section and disposed rearward of the face-piece, and means for stiffening the back-piece to prevent said resilient flanges moving inwardly or toward each other.

3. A sash-bar or mullion, comprising a face-piece, a back-piece secured to the rear side of the face-piece, and flanges projecting outwardly from said back-piece and consisting of arms projecting outwardly from the back-piece, and arms projecting inwardly from the outer edges of the first-named arms.

4. A sash-bar or mullion, comprising a face-piece provided with a longitudinal rib at its rear side, a back-piece secured to the rear side of said rib, and a resilient flange projecting outwardly or laterally from the back-piece and disposed rearward of and contiguous to the face-piece.

5. A sash-bar or mullion, comprising a face-piece, a back-piece comprising a hollow forwardly-projecting rib secured to the rear side of the face-piece, a flange projecting laterally or outwardly from said hollow rib, and means to stiffen said hollow rib to prevent its sides from moving inwardly or toward each other.

6. A sash-bar or mullion, comprising a

face-piece, a back-piece comprising a hollow forwardly-projecting rib secured to the rear side of the face-piece, a flange projecting laterally or outwardly from said hollow rib, and a stiffening bar or rib fitting in the hollow rib of the back-piece to prevent its sides from moving inwardly or toward each other.

7. A sash-bar or mullion, comprising a face-piece provided with a longitudinal rib at its rear side, and a recess at one side of the same, a back-piece comprising a forwardly-projecting hollow rib secured to the rear side of the rib of the face-piece and a laterally-projecting flange disposed rearwardly of such recess of the face-piece, and a stiffening bar or rib engaging said hollow rib to prevent its sides from moving inwardly or toward each other.

8. A sash-bar or mullion, comprising a face-piece provided with a longitudinal rib at its rear side, and a recess at one side of the same, a back-piece comprising a forwardly-projecting hollow rib secured to the rear side of the rib of the face-piece and a laterally-projecting flange disposed rearwardly of such recess of the face-piece, and a stiffening-bar engaging said hollow rib to prevent its sides from moving inwardly or toward each other; said stiffening-bar comprising a wood strip provided with a sheet-metal cover.

FRANCIS J. PLYM.

Witnesses:

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