No. 871,218. PATENTED NOV. 19, 1907.

E. M. ERB.

SASH CONSTRUCTION.

APPLICATION FILED JAN. 10, 1907.

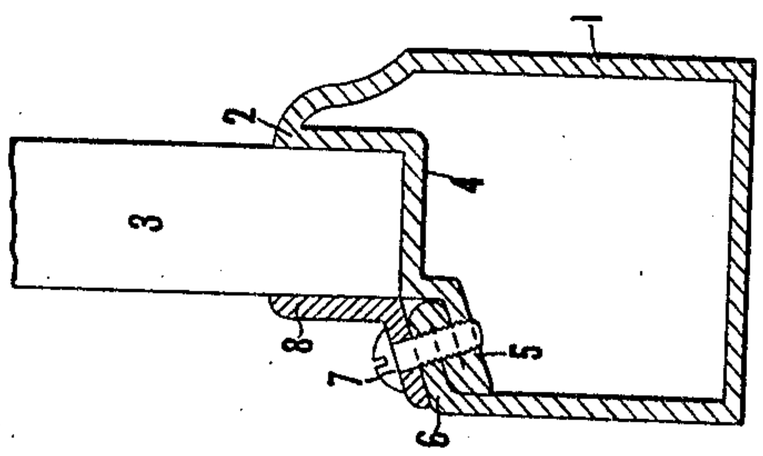

FIG. 3.

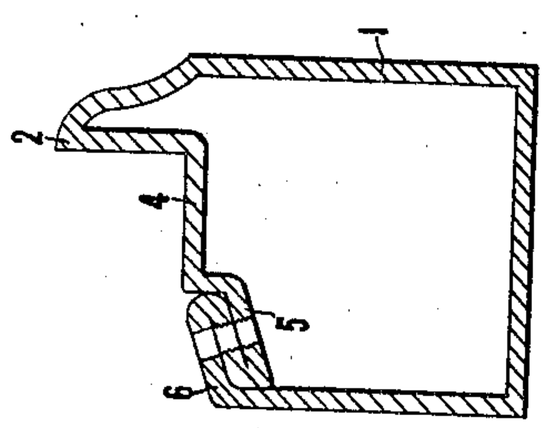

FIG. 2.

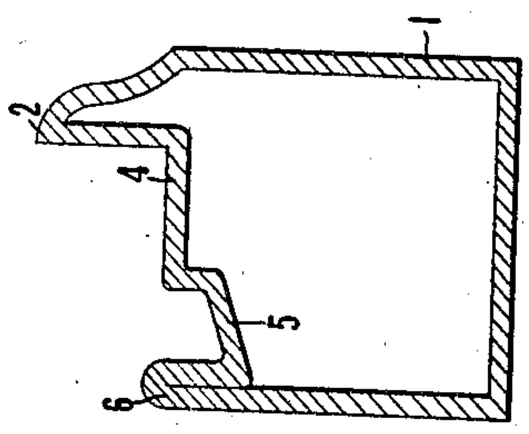

FIG. 1.

WITNESSES

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SASH CONSTRUCTION.

No. 871,218. Specification of Letters Patent. Patented Nov. 19, 1907.

Application filed January 10, 1907. Serial No. 351,651.

To all whom it may concern:

Be it known that I, EDMUND M. ERB, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Sash Construction, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to sash construction and more particularly to sashes adapted for use in railway cars.

One of the objects of my invention is to provide a sash frame which, while of exceedingly light weight, will yet be exceedingly strong and rigid.

Another object of the invention is to provide a construction whereby binding strips employed to assist in holding the glass in position in the sash may be more firmly secured in position upon the sash.

Other objects will be in part obvious and in part pointed out hereinafter.

The invention accordingly consists in the features of construction, combinations of elements and arrangement of parts which will be exemplified in the construction hereinafter set forth, and the scope of the application of which will be indicated in the following claims.

In the accompanying drawings, wherein is illustrated one of the various possible embodiments of my invention:—Figure 1 is a cross-sectional view taken through the bottom rail of a sash, showing the same in a partly completed state. Fig. 2 is a similar view showing the rail before the glass is positioned therein. Fig. 3 is a similar view showing the glass seated in the rail and clamped therein.

Similar reference characters refer to similar parts throughout the several views of the drawing.

Referring now to the drawing, wherein my invention is shown applied to the bottom rail of the sash frame, 1 denotes a hollow metallic member which constitutes the bottom rail, which is preferably formed integral, as shown. This member, in its upper portion, is provided with an integral shoulder as at 2, against which the glass 3 is seated, the glass resting upon a horizontal portion 4 at the base of the shoulder.

As shown in Fig. 1 of the drawings, the metal adjacent portion 4 is first dished, as at 5, and a portion thereof is extended upward to form a longitudinally extending lip 6 adapted when bent downwardly to enter the dished portion 5, as clearly shown in Fig. 2. It will be noted that the metal is thus bent and lapped upon itself to form three thicknesses of metal. The lapped portions of member 1 are then apertured and threaded to receive screws, one of which is shown at 7, said screws entering through openings provided in an angle binding strip 8. One flange of this binding strip seats the lapped portion, and the other flange extends upwardly in parallel relation with the face of shoulder 2, the glass being firmly clamped between this flange and said shoulder.

The lapped portion of member 1 not only provides a reinforcing means for the rail, but also provides a firm bedding for the screws employed to hold the angle binding strip in position.

It will accordingly be seen that I have provided a construction well adapted to achieve the several ends and objects sought to be obtained in an exceedingly simple yet efficient manner, and while I have shown my invention applied to the bottom rail of a metallic sash, it will be obvious that the same, if desired, may be employed in the side or top rails and still retain its inherent advantages.

As many changes could be made in the above construction and many apparently widely different embodiments of this invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

It is also to be understood that the language used in the following claims is intended to cover all of the generic and specific features of the invention herein described and all statements of the scope of the invention, which as a matter of language might be said to fall therebetween.

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

1. A sash rail formed by a hollow metallic member having an integral shoulder against which the glass seats, a portion of the metal comprising said member being bent and

lapped, an angle binding strip seated upon said lapped portion, and screws extending through said binding strip and tapped into said lapped portion.

2. A sash rail formed by a hollow metallic member having an integral shoulder against which the glass seats, a portion of the metal comprising said member being bent rearwardly upon itself and then bent forwardly upon itself to form a reinforce of triple thickness, a member adapted to engage the glass and hold the same against said shoulder, and means extending through said member and said reinforce for holding the former in fixed position upon the latter.

In testimony whereof I affix my signature, in the presence of two witnesses.

EDMUND M. ERB.

Witnesses:
R. F. MARTIN,
H. M. SEAMANS.