H. R. GOGAY.

METAL FRAME CONSTRUCTION.

APPLICATION FILED FEB. 26, 1917.

1,287,672. Patented Dec. 17, 1918.

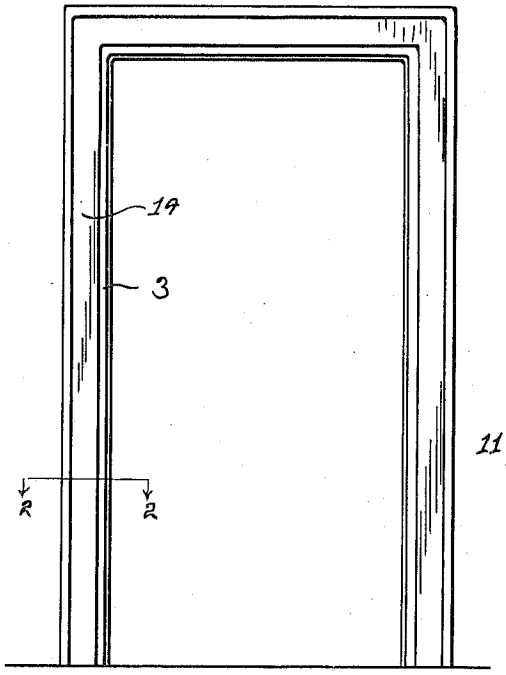


Fig. 1

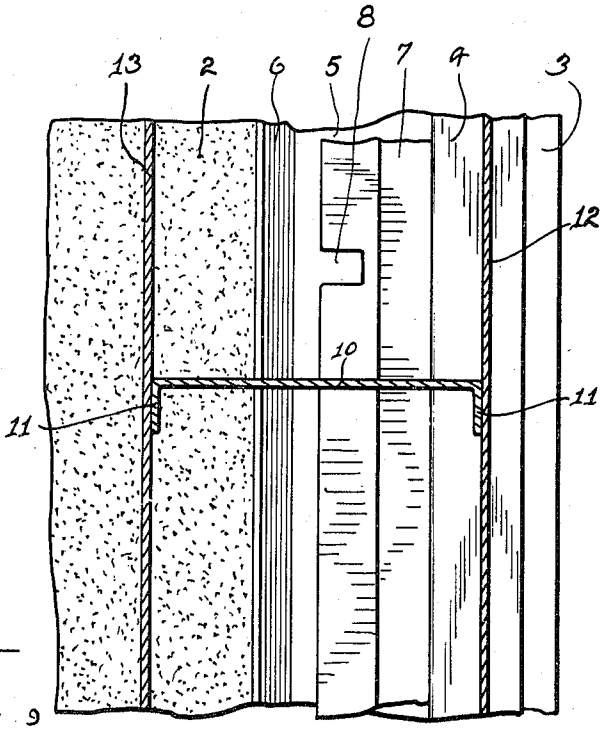


Fig. 3

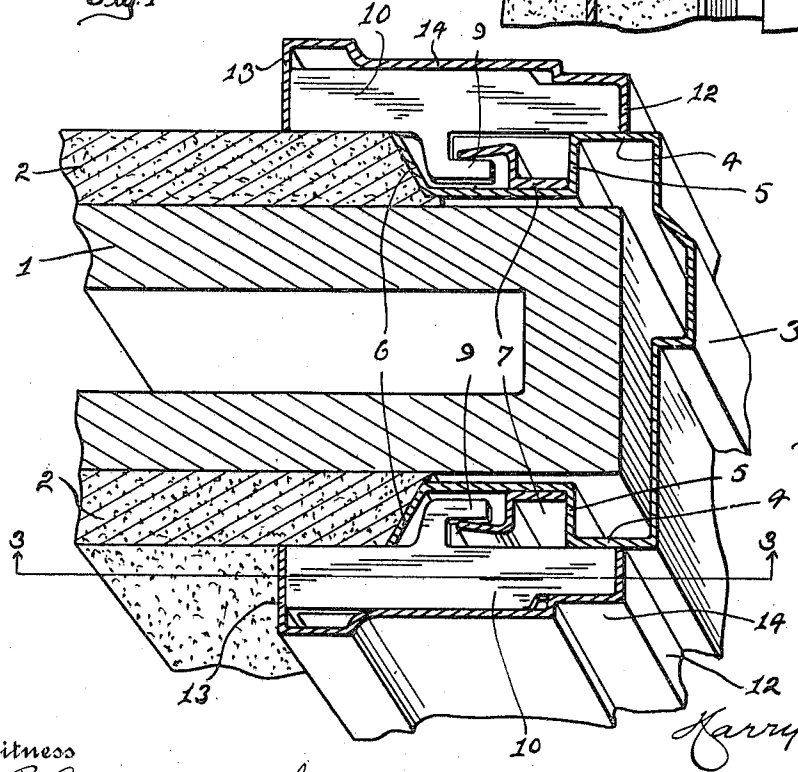


Fig. 2

Witness

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UNITED STATES PATENT OFFICE.

HARRY R. GOGAY, OF COLUMBUS, OHIO, ASSIGNOR TO THE SOLAR METAL PRODUCTS COMPANY, OF COLUMBUS, OHIO, A CORPORATION OF NEW YORK.

METAL FRAME CONSTRUCTION.

1,287,672. Specification of Letters Patent. Patented Dec. 17, 1918.

Application filed February 26, 1917. Serial No. 150,957.

To all whom it may concern:

Be it known that I, HARRY R. GOGAY, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Metal Frame Constructions, of which the following is a specification.

This invention relates to metal frame construction designed for use in fireproof doors and windows and relates principally to a means whereby the jamb and trim sections may be securely held in position. To this end, my invention consists of a peculiar type of locking clip adapted for coaction with a notched flange construction wherein the clip carrying the trim pieces through the notched portion of the flange and then by a slight downward movement, is securely held in position.

This structure is shown in the accompanying sheet of drawings wherein similar characters of reference designate corresponding parts, and in which:

Figure 1 shows a door frame set in position,

Fig. 2 is an enlarged sectional perspective taken on line 2—2 of Fig. 1, and,

Fig. 3 is a section taken on line 3—3 of Fig. 2.

In these drawings, the building wall is designated by the reference numeral 1 and the plastering by the numeral 2. It is on the edge of this wall or in the door or window opening, that the jamb 3 is located. This jamb 3 comprises an inside wall integrally connected with two side walls or faces 4, the latter being provided with longitudinally extending depressions 5. The outside edges of both of these depressions terminate in the edge portions 6, which are bent outwardly at a slight incline and to a distance equaling the height of the finished plaster, so that their outer edges serve as a gage to which the plasterer may work. Within these depressions there are located a plurality of Z-shaped locking members 7 each provided with a notched-out portion 8. One leg of these Z-members is rigidly attached to the jamb portion, while the other is notched, as has been related, to coöperate with the tongue 9 formed on each of the locking members 10. These locking members are preferably formed of a flat piece of sheet metal whose ends are bent substantially at right angles as is shown at 11 to afford a ready means of attachment to the edge walls 12 and 13 of each of the trim sections 14, such as by spot welding or riveting as may be desired. The locking tongues 9 thus form an integral part of the locking members and are formed from the metal constituting them in such manner that they are adapted to pass through the notches 8 in the Z-members and then given a slight downward movement to effect a lock to the rear of the Z-members. In this manner, the various trim sections are securely held in position and, if spot welding is resorted to, no marks of any kind appear on the exposed surfaces of the trim sections to show where the locking clips have been attached.

What I claim is:

A casing of the class described, comprising a jamb formed to include front and side faces, each of said faces including a longitudinally extending groove, a substantially Z-shaped locking flange seated within said groove and formed to include a resilient lip having a notch form therein, a trim structure including inwardly turned end flanges, a plate situated within said structure and retained in position through the coöperation of said end flanges, and an L-shaped locking tongue formed with said plate and adapted to be inserted through the notch formed in said lip whereby the tongue may be slid into a locking position in engagement with said lip and to the rear of the latter so as to retain said trim structure in secure relation with said jamb.

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

HARRY R. GOGAY.

Witnesses:

A. E. PARKS,

C. C. SHEPHERD.