

R. D. MAYO, SR.
METAL CASING.
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1,048,988.

Patented Dec. 31, 1912.

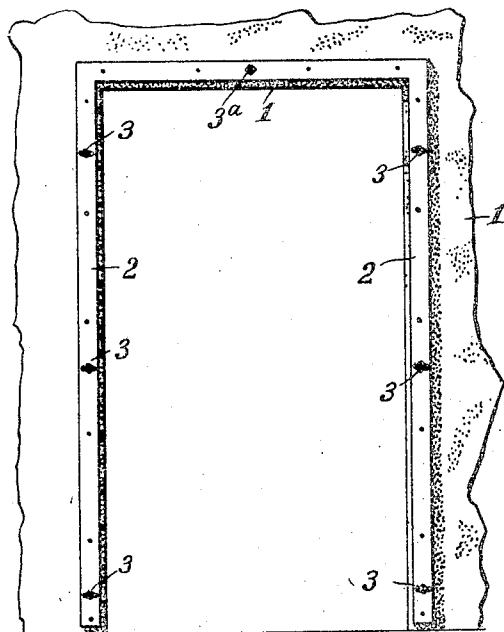


Fig. 1.

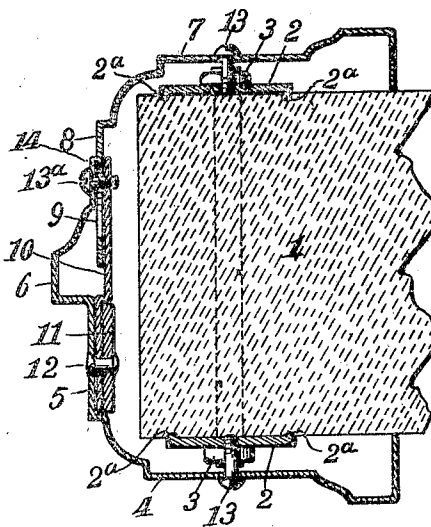


Fig. 2.

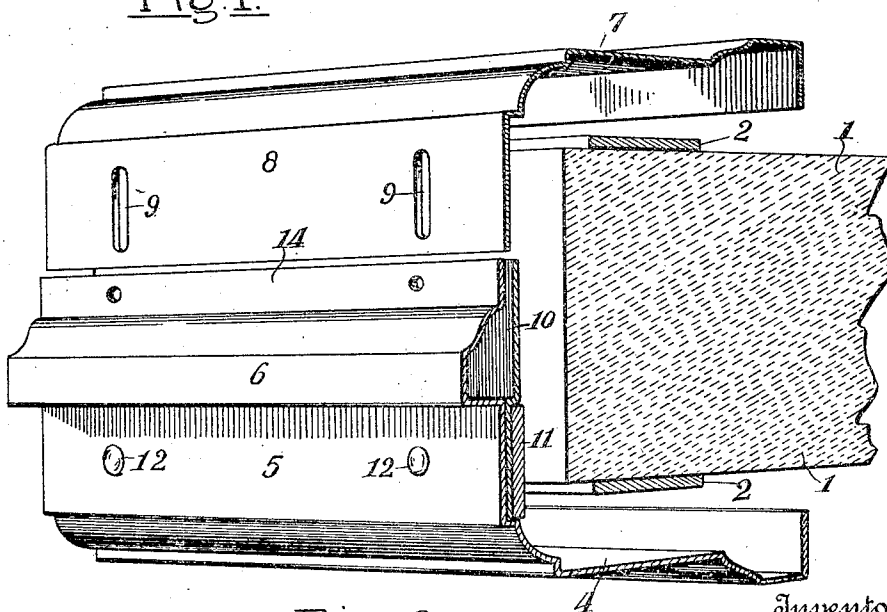


Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

ROBERT D. MAYO, SR., OF GRAND RAPIDS, MICHIGAN.

METAL CASING.

1,018,988.

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To all whom it may concern:

Be it known that I, ROBERT D. MAYO, SR., a citizen of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Metal Casings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in metal casings for the doors, windows and the like in buildings, and its object is to provide a casing of sheet metal and fireproof, that shall be adjustable to conform to the variations in the thickness of the wall, that shall be adapted to adjust in the opening of the wall to vertical and horizontal lines regardless of any moderate variation in the opening, to provide a device readily attached or detached and securely held in place and to provide the same with various new and useful features hereinafter more fully described and particularly pointed out in the claims, reference being had to the accompanying drawings in which:—

Figure 1 is a front elevation showing an opening in a wall and the inner adjustable frame attached thereto; Fig. 2 is a horizontal section on an enlarged scale of one side of the casing complete applied to a wall; and Fig. 3 a perspective detail showing the parts separated to more fully illustrate their construction.

Like numbers refer to like parts in all of the figures.

1 represents the wall of a building preferably of fireproof material such as concrete, tile, or terra cotta or the like having an opening for door or window, (a door opening being shown).

2 are inner frames preferably of flat bar iron or like material applied to the respective opposite sides of the wall 1 and adjacent to the margin of the opening therein. These frames are preferably adapted to adjust to vertical and horizontal lines regardless of the accuracy of the opening in the wall and also to be re-adjusted in the event the building should settle out of shape at any time. To this end these frames are preferably provided with bolts extending through the wall and connecting the frames clamping the same against opposite sides of the wall. At the top the bolt 3^a serves as

a pivot bolt on which to adjust the frame and the side bolts 3 preferably extend through horizontal slots in the frame whereby a sufficient adjustment thereof may be had. Obviously the bolts may adjust in enlarged openings in the wall if preferred.

To insure the frame against slipping out of place on the wall it is provided at intervals with inturned spurs 2^a which are forced into the wall by the pressure of the bolts. This serves to securely anchor the frames. A sheet metal casing is provided made in two parts and adjustably connected, one of which serves as an inner casing 4, covers one of the inner frames 2; forms a suitable casing for the opening and is thence extended inward within the opening and stamped in shape to form a suitable rabbet to receive the door or window as the case may be and to form a stop 6 for the same. Extending from the stop the sheet metal is prolonged to form an extension 14, to overlap an inwardly extended portion 8, on the outer casing 7, and cover the same. A coupling plate 10, is also provided which is secured to the inner surface of the casing 4, opposite the rabbet, extends thence back of the stop and parallel with the extension 14, of the stop. Between this extension 14, and the plate 10, the inner extended edge of the outer casing 7, is adjustably clamped by screws 13^a extending through the extension 14, and slots in the extension 8, and tapped into the coupling plate whereby the casings may be spaced apart more or less to properly fit and embrace the wall and cover the respective frames 2, to which they are further secured by means of screws 13, extending through openings in the casing and tapped into the said frames. To further strengthen the casing opposite the rabbets to properly carry the door or window without distortion strengthening bars 11, are extended on the side of the casing between which and the casing the coupling plate 10, is secured by means of rivets 12. This casing can be readily removed by removing the screws 13, and 13^a and also readily adjusted by moving the bolts 3, to adjust the frame 2, to vertical and horizontal lines as occasion may require.

What I claim is:—

1. A metal casing, comprising inner frames, a pivot bolt connecting said frames at the top, transverse slots at intervals in the sides of said frames, bolts adjustable in said

slots to adjustably secure the frames to opposite sides of a wall and sheet metal casings detachably secured to said frames and having overlapping inner margins adjustably secured to each other.

2. A metal casing, comprising opposing casings adapted to embrace the edge of a wall, means for securing said casings to opposite sides of a wall each casing being extended inward and having adjustable overlapping portions, the inner portion being provided with slots, a coupling plate secured to the outer casing and overlapping the inner casing and clamping bolts adjustable in said slots and clamping the edge of the inner casing between the margin of the outer casing and the coupling plate.

3. A metal casing, comprising an inner casing and an outer casing, means for attaching said casings to opposite sides of a wall having an opening therein, each casing being extended inward within said opening the outer casing being formed with a rabbet, a stop, and an extended margin to overlap the other casing, a coupling plate attached to the outer casing and extending opposite said extended margin, the inner casing having its extended margin extended between the margin and the coupling plate and provided with slots, and screws extending through the said margin and also through the slots and into the coupling plate.

4. A metal casing, comprising inner and outer casings adapted to be attached to opposite sides of a wall having an opening, said casings being prolonged inward and having overlapping margins, the inner of said margins being slotted, a coupling plate and a strengthening bar attached to the outer casing, the coupling plate also overlapping the

slotted margin of the other casing, and screws extending through the said overlapping margins and tapped into the coupling plate.

5. A metal casing comprising frames adapted to engage opposite sides of a wall near an opening therein, spurs on the frame to engage the wall, bolts extending through the frames and wall, and adjustable in the frames, and sheet metal casings detachably secured to the frames having inwardly turned portions provided with overlapping margins, and means for adjustably securing said margins to each other.

6. A metal casing, comprising inner frames adapted to embrace a wall near an opening therein, bolts to adjustably attach said frames to a wall, inner and outer sheet metal casings detachably secured to said frames the outer casing adapted to extend inward within said opening and having a rabbet and stop formed therein and also having a margin extended to overlap the inner casing, a coupling plate attached to the outer casing and extending opposite said margin, a strengthening bar also attached to the outer casing opposite the rabbet, the inner casing also adapted to extend inward within said opening and having a slotted margin between the margin of the outer casing and the coupling plate and screws extending through said margins and the said plate.

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

ROBERT D. MAYO, Sr.

Witnesses:

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