A. L. WEIS.

FRAME.

APPLICATION FILED SEPT. 9, 1910.

1,026,838. Patented May 21, 1912.

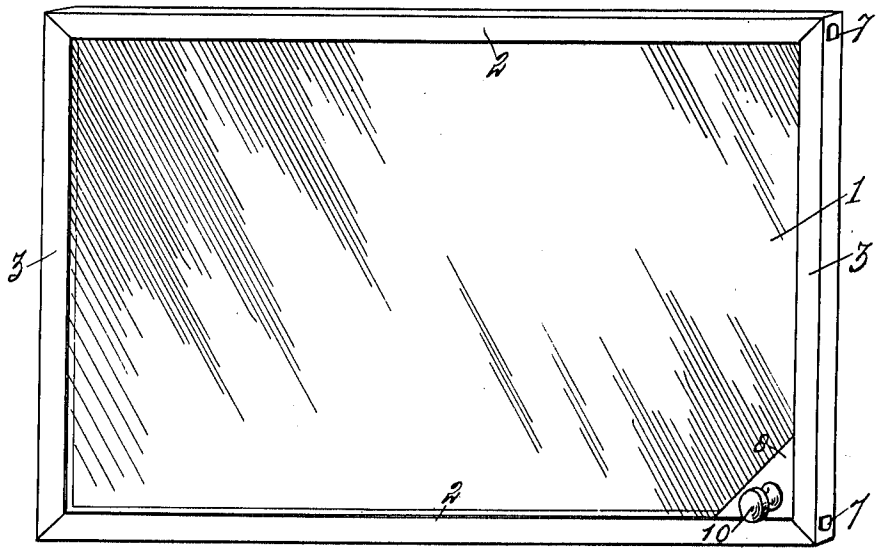

Fig. 1.

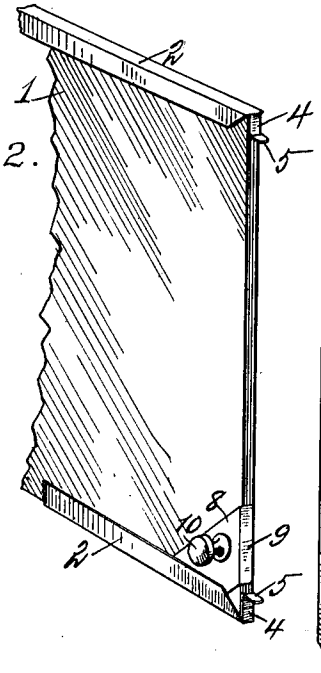

Fig. 2.

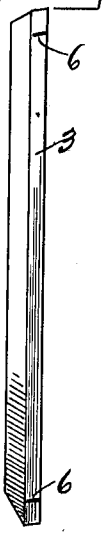

Fig. 3.

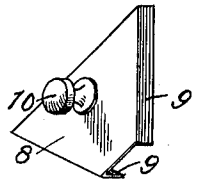

Fig. 5.

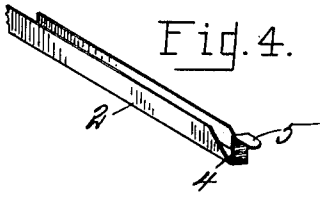

Fig. 4.

WITNESSES:

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UNITED STATES PATENT OFFICE.

ANDREW L. WEIS, OF MONROE, MICHIGAN, ASSIGNOR TO THE WEIS MANUFACTURING COMPANY, OF MONROE, MICHIGAN, A CORPORATION.

FRAME.

1,026,838. Specification of Letters Patent. Patented May 21, 1912.

Application filed September 9, 1910. Serial No. 581,288.

To all whom it may concern:

Be it known that I, ANDREW L. WEIS, a citizen of the United States, residing at Monroe, in the county of Monroe and State of Michigan, have invented certain new and useful Improvements in Frames; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to frames for plates of glass, panels, or the like, and is particularly well adapted for small sliding glass doors arranged as closures for the compartments of a bookcase or the like.

My invention is designed to furnish a frame composed entirely of sheet-metal and which may be assembled and secured in place without the use of solder or rivets.

My invention is also intended to provide a handle which is secured in place by the frame.

I attain these objects by means of the construction and arrangement of parts hereinafter described, and shown and illustrated in the accompanying drawings, in which,—

Figure 1 is a front view of a plate of glass mounted in my frame; Fig. 2 a perspective view of a portion of the same with a part of the frame removed; Fig. 3 a perspective view of one of the channeled end-pieces, hereinafter referred to, detached; Fig. 4 a perspective view of one end of a top or bottom channeled piece, hereinafter referred to, detached, and Fig. 5 a perspective view of the handle-plate and handle, hereinafter referred to, detached.

Corresponding numerals of reference indicate like parts throughout the drawings.

In the drawings, 1 is a plate of glass or other material to be framed. The frame consists of four strips of sheet metal bent into U-shaped transversely to form channels or grooves into which the margins of the article to be framed exactly fit.

2—2 are the top and bottom pieces, and 3—3 are the end-pieces constituting the frame.

Each of the metal strips is mitered at each end, as shown, to form symmetrical angular joints at the corners of part 1.

At each corner of the plate 1, the mitered ends of the strips 2—3 are secured together in the manner now to be described—the description of one sufficing for all. The part of one of the strips coinciding with the bottom of the channel or groove therein is extended to form an elongated tongue 4. This part is bent inwardly at a right-angle to embrace closely the corner of the part 1 and near its end is bent outwardly at a right-angle, as at 5. Through the bottom of the channel of the piece which abuts against the piece having the tongue 5 is a narrow transverse slot 6 which, when this piece is put in place, receives the tongue 5 which projects outwardly through the slot. The tongue 5 being now bent closely down upon the edge of the piece through which it projects, as at 7, the two meeting channeled metal pieces are tightly locked together with their mitered edges in close contact.

The margins of the pieces 2—3 lie so close to the surface of the part 1 that no finger hold is presented and it becomes necessary to provide means for taking hold of the device in order to move it. To this end 8 is a triangular piece of sheet metal, two edges of which converge at a right angle and which have backwardly turned flanges 9. To the outer side of the piece 8 is secured a handle 10. Before the metal frame is secured in place, the flanges 9 are slipped into contact with the meeting margins of the plate at one of its corners with the handle projecting outwardly. Now when the channeled frame pieces are secured in place, the outer flange or side of the frame members will embrace and firmly hold in place the part 10 with its handle. Two handles may of course be provided, if desired, but where the window or door is to be moved to overlap a corresponding device, only a single handle will be provided for each one at its outer lower corner.

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

1. In a device of the described character, a longitudinally channeled metal strip mitered at its end, the central transverse portion of the end of the strip being elongated

to form a tongue, a corresponding mitered channeled metal strip-end having through the bottom of its channel an aperture through which said tongue extends, said tongue being bent into parallel relation with said latter metal strip-end.

2. A frame comprising a series of longitudinally channeled metal strips, the channels of which are adapted to receive, with a close fit, the margins of a sheet of glass or the like, said strips being correspondingly mitered at their meeting ends, and means for securing the meeting ends of said strips together consisting of a tongue formed by extending the bottom portion of the channel of one of the meeting ends, said tongue passing through a transverse slot in the bottom portion of the channel of the other meeting end, the projecting tongue being turned to overlap the outer margin of the slotted member.

3. In a device of the described character, a sheet of glass, a sheet metal plate having flanges which engage the converging margins of one corner of the glass, a handle secured to said plate and a frame consisting of metal strips having channels which receive the margins of the glass and the flanges of said plate.

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

ANDREW L. WEIS.

Witnesses:
ALBERT G. NUEST,
F. R. MORRIS.