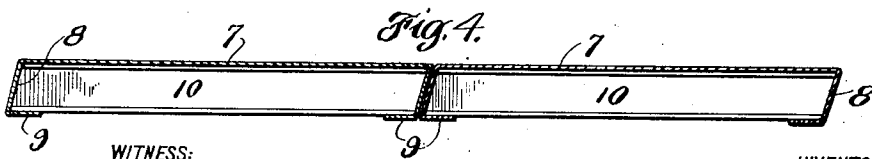
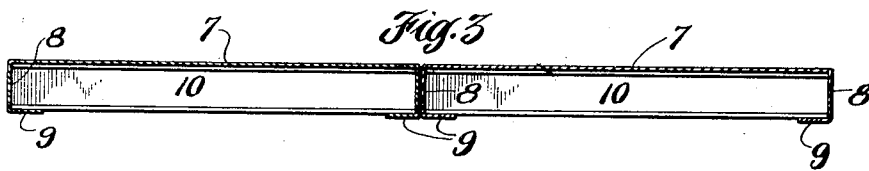
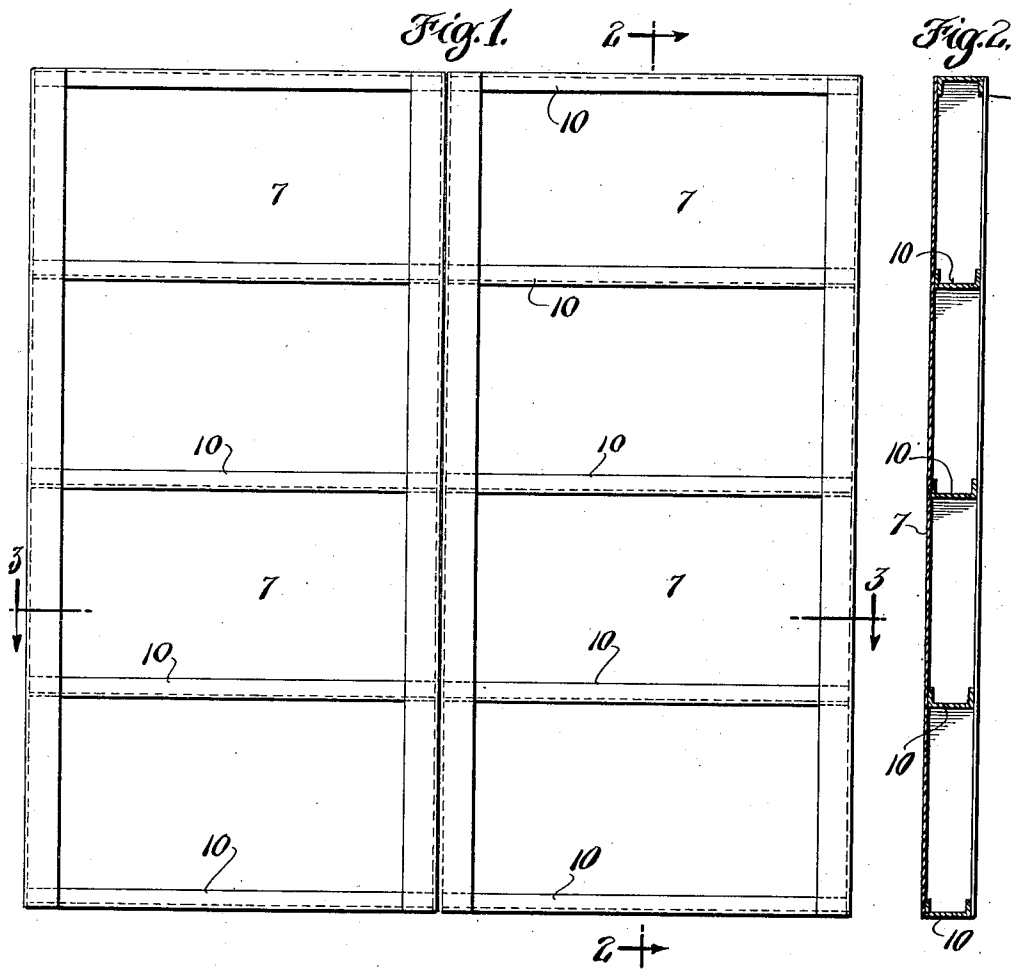


N. F. AMBURSEN.
MOLD PANEL.
APPLICATION FILED SEPT. 11, 1919.

1,339,912.

Patented May 11, 1920.



WITNESS:
Gustav Hennlinger.

INVENTOR
Nils F. Ambursen

BY
Chymestredt & Lechner
ATTORNEYS

UNITED STATES PATENT OFFICE.

NILS F. AMBURSEN, OF PITTSBURGH, PENNSYLVANIA, ASSIGNOR TO UNI-FORM COMPANY, A CORPORATION OF MASSACHUSETTS.

MOLD-PANEL.

1,339,912.

Specification of Letters Patent. Patented May 11, 1920.

Application filed September 11, 1919. Serial No. 323,131.

To all whom it may concern:

Be it known that I, NILS F. AMBURSEN, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Mold-Panels, of which the following is a specification.

This invention relates to panels for use in the construction of floors, ceilings, walls and other structures of plastic material such as concrete, and it has for one of its primary objects the provision of an improved panel which is simple in construction, economical to manufacture, has the requisite rigidity with a minimum amount of metal, and which may be conveniently supported from the false work or other portions of the mold structure.

The foregoing, together with such other objects as may hereinafter appear, I obtain by means of a construction which I have illustrated in preferred form in the accompanying drawings, wherein—

Figure 1 is a bottom plan view of a pair of panels as used in constructing ceilings or floors; Fig. 2 is a section on the line 2—2 of Fig. 1; Fig. 3 is a section on the line 3—3 of Fig. 1; and Fig. 4 is a section similar to Fig. 3 illustrating a modification of my invention.

In carrying out my invention, I construct a panel from a sheet metal plate 7, preferably rectangular in form, and bend up the edge portions of the sheet at each of two opposite sides, as indicated at 8, in a plane substantially at right angles to the body of the plate, the extreme edge portions being bent inwardly in a plane substantially parallel with the body of the plate to provide longitudinal flanges 9. The side portions of the panel plate are thus given a channel-like form which lends great rigidity longitudinally of the panel.

To reinforce and stiffen the panel transversely, I provide a plurality of suitably spaced channels 10, of which one is preferably located at each end, the intermediate channels being located as may be desired. The web portions of the end channels 10

are placed outwardly and such members, together with the bent over portions 8 and 9 at the sides of the panel constitute a rigid frame, as it were, for the panel. The channels may be secured in any preferred manner, as for example by spot welding. The flanges 9 or the flanges of the channel 10 may be utilized as a convenient means for attaching the panel to the mold structure, for which purpose keys or clips, such as are customarily used in this art may be employed. It will be seen that the panel is simple in construction, easy to manufacture, and has requisite rigidity in all directions without excess weight so that the panels may be readily handled.

The construction shown in Fig. 4, the same general arrangement described is employed, the only difference being that the flanged portions 8, instead of being disposed at right angles to the main face of the panel, are inclined with reference thereto, the purpose of such modified construction being to reduce the number of fasteners needed to secure the panels in position, in which connection it will be seen that one clip will serve the purpose of two because of the overlapping inclined side portions of adjacent panels.

I claim:

1. A panel comprising a rectangular sheet metal plate bent over at the side portions thereof to provide channel-like members at the sides, and transverse reinforcing members secured to the plate.

2. A panel comprising a rectangular sheet metal plate bent over at the side portions thereof to provide channel-like members at the sides, and transverse reinforcing members secured to the plate, the ends of said reinforcing members being disposed in the channel like side portions of the panel.

3. A panel comprising in combination a sheet metal plate, substantially rectangular in form, the side portions of which are bent to constitute channel-like members extending longitudinally of the panel, and transverse stiffening channels secured to said plate.

4. A panel comprising in combination a sheet metal plate, substantially rectangular

in form, the side portions of which are bent to constitute channel-like members extending longitudinally of the panel, and transverse stiffening channels secured to said plate, the outer channels being located at the extreme ends of the plate.

5 5. A panel for concrete forms comprising

a substantially rectangular sheet metal plate having opposite edge portions bent over into a substantially channel-like section. 10

In testimony whereof I have hereunto signed my name.

NILS F. AMBURSEN.