No. 675,648.

Patented June 4, 1901.

H. W. BEARDSLEY.

BUILDING PANEL.

(No Model.)

(Application filed Dec. 28, 1900.)

2 Sheets—Sheet 1.

Fig. 1.

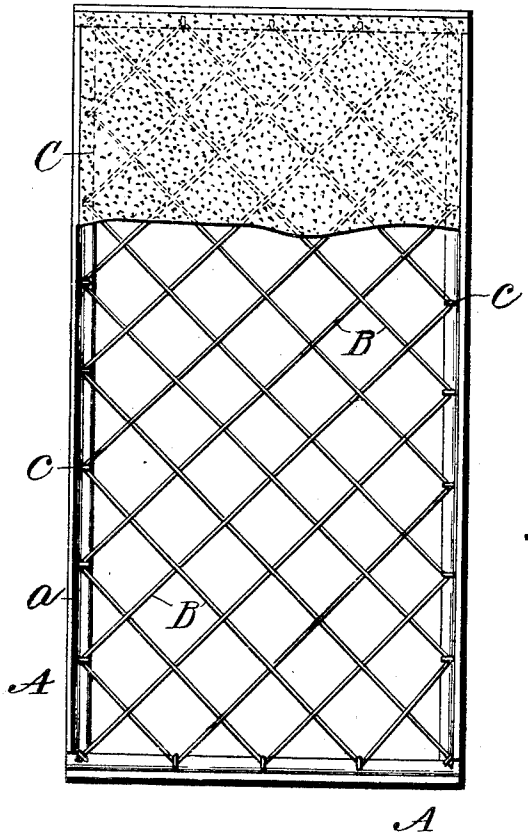


Fig. 3.

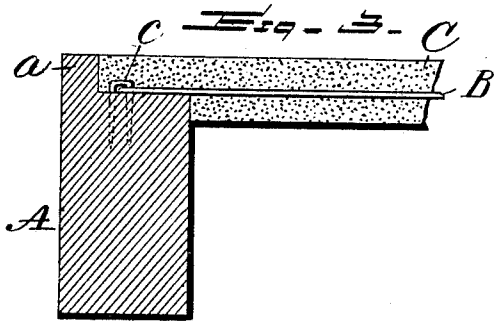


Fig. 4.

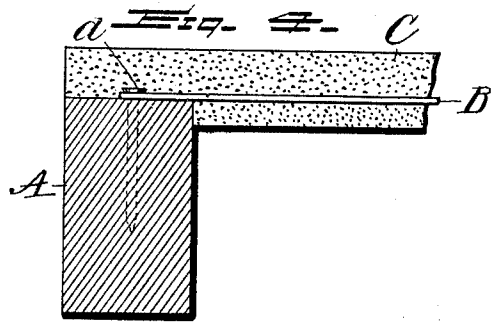


Fig. 2.

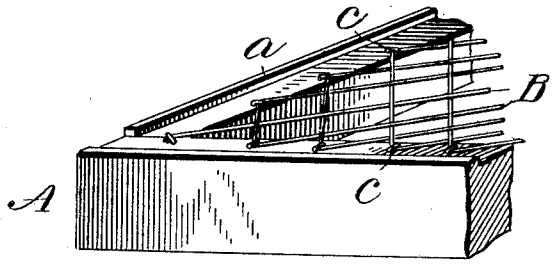
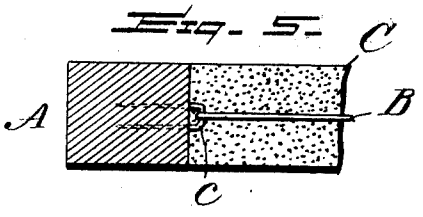


Fig. 5.



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(No Model.) 2 Sheets—Sheet 2.

Fig. 6.

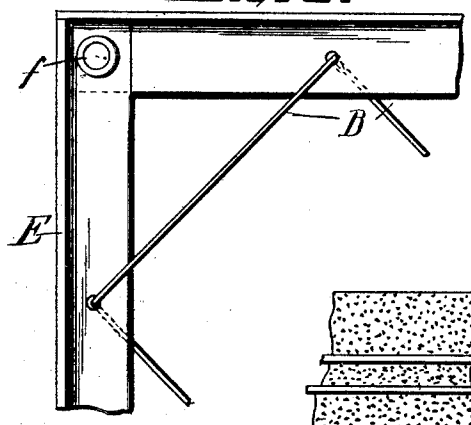


Fig. 7.

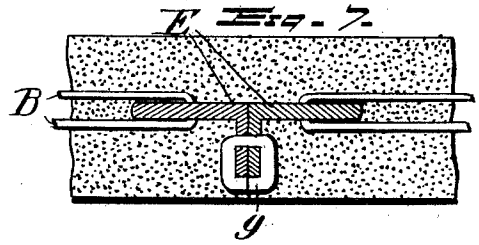


Fig. 8.

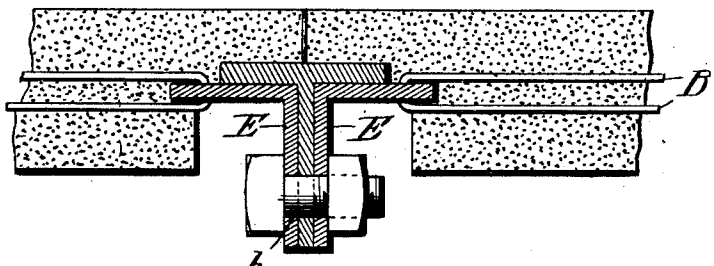
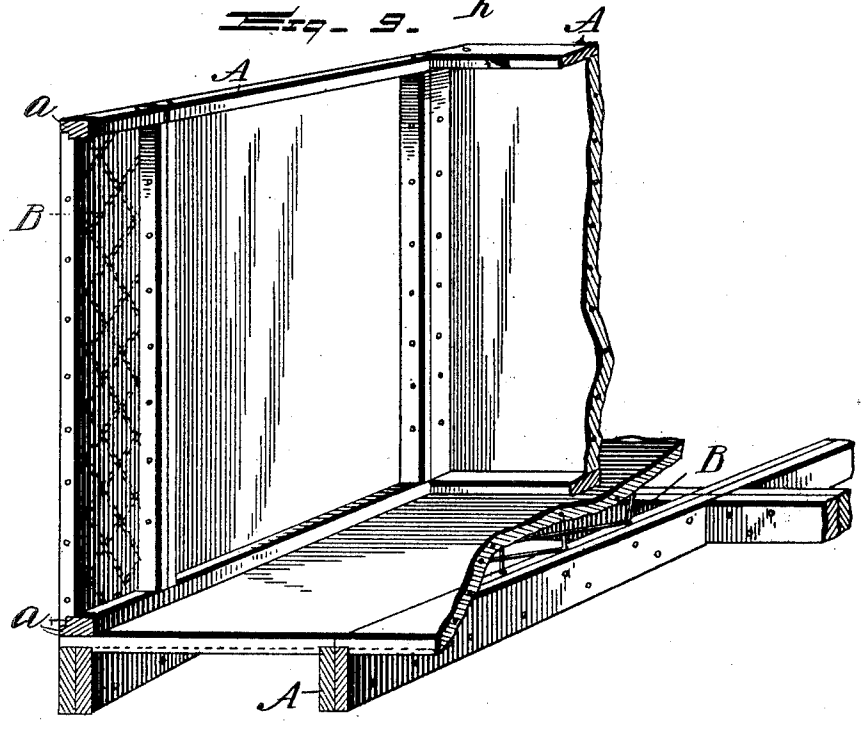


Fig. 9.



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UNITED STATES PATENT OFFICE.

HENRY W. BEARDSLEY, OF BUFFALO, NEW YORK.

BUILDING-PANEL.

SPECIFICATION forming part of Letters Patent No. 675,648, dated June 4, 1901.

Application filed December 28, 1900. Serial No. 41,335. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. BEARDSLEY, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Building-Panels; 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 of reference marked thereon, which form a part of this specification.

This invention relates to an improved panel for use in the construction of temporary and permanent buildings.

The object of the invention is to simplify and facilitate building construction, the improved panel, which is made to be wholly or partly fireproof, being capable of utilization in the erection of all of the parts of a building, including the walls, partitions, floors, ceilings, and roof, and in the construction of sidewalks, vault-covers, &c.

Generally speaking, my invention consists of a frame, of metal, wood, or other suitable material, of rectangular or other form having wires secured across it and having marginal portions, the whole forming a panel adapted to be bolted, nailed, clipped, or otherwise secured to supports and to similarly-constructed panels to form the parts of a building or other structure.

The details of construction of my improved building-panel will be found fully set forth in the following description, in connection with which attention is called to the accompanying drawings.

In the drawings, Figure 1 is a plan view, partly broken away, of a wooden-frame building-panel embodying my invention. Fig. 2 is an enlarged perspective view of a portion of the frame and cross-wiring. Fig. 3 is an enlarged cross-sectional view of the panel. Fig. 4 is a cross-sectional view of a panel in which the filling is extended over the face of the frame. Fig. 5 is a cross-sectional view of a panel which may be used in the construction of doors and the like and in which the filling is entirely within the frame. Fig. 6 is an enlarged perspective view of a portion of a panel having a metal frame. Fig. 7 is a sectional view showing a manner of securing two metal-frame panels. Fig. 8 is a similar view showing a manner of securing two metal-frame panels to an intermediate support. Fig. 9 is a perspective view illustrating a manner of securing together a number of wooden-frame panels to form a floor and walls or partitions.

Referring to the accompanying drawings by letter and first to Figs. 1 to 3, inclusive, A denotes a frame, of wood or the like, the members of which are each provided with a flange or bead *a*. B B denote cross-wires secured to the frame inside of the flange or beads. C designates a filling of plaster, cement, or other material, which is cast or otherwise applied to the frame and incloses or imbeds the cross-wires, the outer surface of the filling being preferably flush with the outer surface of the flanges *a*. Any suitable devices, such as the staples *c* or nails or screws *d*, may be employed to secure the cross-wires to the frame, the devices being covered by the filling.

In Fig. 4 is illustrated a frame formed without flanges, and the filling is shown as extending to the outer edge of the frame or entirely across the surface.

Fig. 5 shows a panel which may be used in the construction of doors and the like and in which the cross-wires are secured to the inner sides of the frame members and the filling entirely occupies the frame.

Fig. 9 illustrates a manner of securing together by nails, spikes, bolts, or the like a number of panels having wooden frames to form a floor and walls or partitions. The panels may, in lieu of being secured directly to each other, be fastened to intermediate supports of wood or metal.

In Figs. 6, 7, and 8 is illustrated a panel the frame E of which is of metal and preferably of angular form in cross-section. The wires B are secured, preferably, by being passed through holes in the frame, and rivets or bolts *f* are employed to secure the frame members together. In Fig. 7 are shown portions of two

abutting frames secured together by metal clips *g*, though obviously any equivalent securing device, such as bolts or rivets, may be employed. Fig. 8 shows two frames secured to T-support by a bolt *h*.

My improved panel may, as previously stated, be employed in the construction of all parts of a building, including the walls, floor, ceiling, partitions, and roof, and is also capable of utilization in the construction of doors, sidewalks, vault-covers, &c. In practice the panels are secured together or to intermediate supports and form a rigid and durable structure. Where metal is employed in the construction of the frame, the panel is proof against fire, and when wood is employed the same may be fireproofed or protected against fire. With my improved panel a building may be quickly erected at comparatively low expense and with the exercise of ordinary skill.

I claim as my invention—

As a new article of manufacture, a building-panel composed of a frame the parts of which are adapted to form frame members of the building and having marginal portions whereby it may be secured directly to frame members of a similar panel or panels, wires secured to the frame across the opening, and a filling for the frame applied to both sides of the wires to inclose them.

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

HENRY W. BEARDSLEY.

Witnesses:
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JOS. P. CULLEN, Jr.