

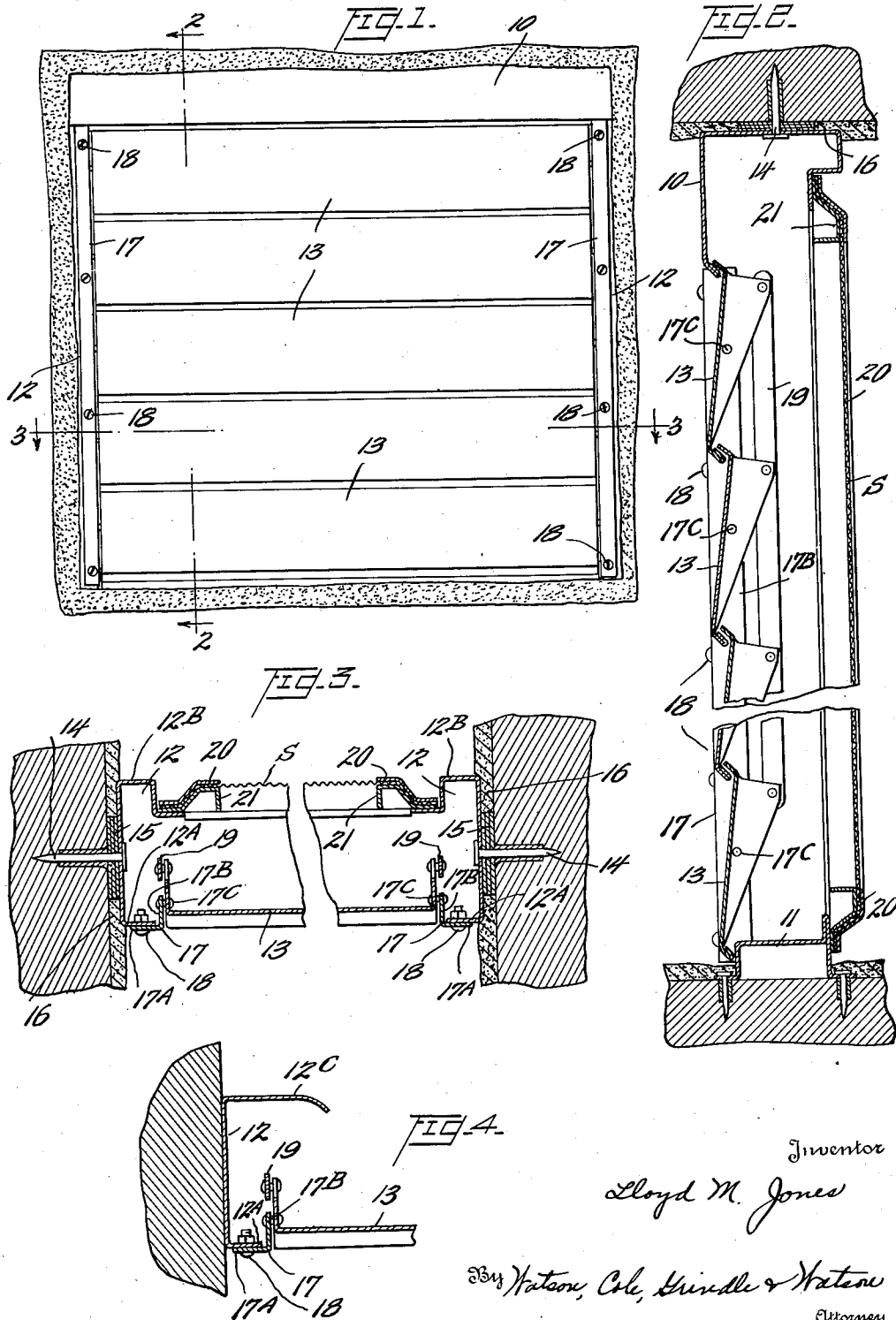
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LOUVER PANEL CONSTRUCTION

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LOUVER PANEL CONSTRUCTION

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2 Claims. (Cl. 189—62)

This invention relates to a louver panel construction which comprises a panel or frame adapted to be rigidly secured in an opening in a building under construction or one previously constructed; and in which frame a plurality of pivoted louvers may be detachably secured. The aim is to provide a construction of this kind in which the frame or panel may first be rigidly secured in the opening of the building, and later the louvers and associated parts may be detachably secured to the panel. This arrangement obviates the danger of injury to the pivoted louvers and associated parts while the panel is being placed in position or in the case of a new building while construction is in progress, and it also enables the louvers and the parts connected therewith to be assembled and riveted together before being mounted in the frame, which greatly simplifies the assembling operations. Also the louvers may be painted before being secured to the panel in the building, and also they may be removed for cleaning and painting when desired. The foregoing and other advantages are derived from the invention, which is illustrated in one specific form in the accompanying drawing, in which:

Figure 1 is a front elevation of a panel containing the present improvements;

Figure 2 is a vertical broken section on the line 2—2 of Figure 1;

Figure 3 is a horizontal broken section on the line 3—3 of Figure 1; and

Figure 4 is a partial horizontal section of a modified arrangement.

Referring to the drawing in detail, my improved construction embodies a panel or frame having a transverse top member 10, a transverse bottom member 11 and side members 12, which are secured together at their ends in any suitable manner to form a rigid frame. The louvers 13 are arranged between and pivotally connected to the side members 12 in the manner later described.

The frame or panel made up of the side members 12 and the top and bottom members 10 and 11, is designed to be rigidly secured in an opening in a building, and this may be accomplished by means of nails or other suitable fastening devices 14 driven through said members and into the wall of the building surrounding the frame or panel. Where my improved construction is applied to a new building having a coating of stucco or the like, spacing strips or shims 15 may be inserted between the side members 12 and the adjacent wall of the building and the

fastening nails driven through such shims, so that in applying the stucco it may be pressed in between the frame or panel and the wall, as indicated at 16, to produce a tight joint and to assist to firmly hold the frame in position.

Each of the side members 12 of the panel or frame is provided along its front or outer edge with a lateral flange 12A, preferably extending from the top to the bottom thereof. The louvers 13 are pivotally secured at each end to an L-shaped supporting bar 17, each of which is provided with a lateral flange 17A and a rearwardly extending flange 17B, to the latter of which the louvers are pivotally connected as indicated at 17C. The lateral flanges 17A overlap and are arranged outside of the front flanges 12A of the side members 12, and these flanges 12A and 17A are detachably secured together by means of short bolts 18, which may be readily removed or inserted as desired. Along their rear edges the louvers 13 are pivotally connected to a common operating bar 19, by which the louvers are caused to open and close simultaneously. Any suitable means may be employed for moving said bar.

The side members 12 are also preferably provided along their rear edges with lateral flanges 12B, to which a window screen indicated at S may be secured, as by means of bars 20 and 21 bolted or otherwise secured to the flange 12B and between which the screen is held. It will be noted that the flanges 12B are positioned directly back of the joints between the ends of the louvers and the flanges 17B, and said flanges 12B in conjunction with the bars 21 act as troughs to catch and conduct downwardly any water that may be driven inwardly past the ends of the louvers.

The arrangement shown in Figure 4 is substantially the same as that illustrated in the other figures, so far as concerns the means for detachably securing the louvers in place. In this form, however, the side member 12 is provided with a simple lateral flange 12C which is bent along its edge to form a trough to conduct away water as previously described.

From the foregoing it will be seen that the invention provides a construction by which the panel or frame may first be mounted in an opening in a building, either an old building or a new building under construction, and thereafter the louvers and associated parts may be mounted in the frame. This permits assembling and riveting together of the louvers and associated parts before they are attached to the frame or panel.

The louvers may be painted before they are placed in position, and they may be removed for cleaning, repainting or repair when desired and again placed in position without disturbing the frame or panel.

Although the invention has been illustrated and described herein as applied to a vertical wall, and certain portions of the device have been indicated as being "top," "bottom," and "side" members, it will be realized that the invention contemplates the use of the structure in horizontal or inclined walls and in rotated or reversed positions wherein the stated members or elements will occupy other positions with relation to each other with a corresponding change of designation; all of this without departing from the scope of the claims appended hereto.

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is:

1. In a building construction of the class described, a louver panel arrangement for an opening in the wall of an enclosure, said arrangement comprising, in combination, a fixed frame including a pair of side frame members secured rigidly and relatively permanently within, and against the margins of, said opening, said fixed side frame members being substantially of channel shape, each having its web parallel with and adjacent to the sides of the opening, and its flanges extending into the opening, a removable louver frame comprising spaced side frame members of angle shape each disposed with one of its flanges overlapping and closely adjacent to one of the flanges of its associated fixed side member, the other flange of the side frame member of the removable frame being disposed within the confines of the fixed frame and extending parallel with and spaced from the web of the fixed side member, louvers secured at their ends to the last named flanges of the side frame members and means detachably securing said first named flanges of the removable side frame members to the adjacent flanges of said fixed side members, said means being the sole means for attaching the louver frame to the fixed frame, the other flanges of said channel shaped fixed side members being each formed with a flange directed forwardly toward the first named flange

of the fixed side member to form a trough which is spaced rearwardly of the joints between the removable frame and the fixed side members, and between the louvers and the side frame members to which they are attached, to catch and divert any water which might pass through said joints.

2. In a building construction of the class described, a louver panel arrangement for an opening in the wall of an enclosure, said arrangement comprising, in combination, a fixed frame of the same outline as said opening and secured rigidly and relatively permanently therein, said frame comprising top and bottom members and a pair of side members, said side members being substantially of channel shape, each having its web parallel with and adjacent the sides of the opening and its flanges extending into the opening, a readily detachable, louver carrying sub-frame comprising spaced side frame members of angle shape each disposed with one of its flanges extending parallel with and closely adjacent to one of the flanges of its associated fixed frame side members, the other flange of said sub-frame side member extending transversely of the opening, within the confines of the rigid frame, parallel with and spaced from the web of said fixed frame member, louvers pivotally secured at their ends to said last named flanges of the sub-frame members, and means detachably securing said first named flanges of the removable side frame member to the adjacent first-named flanges of said fixed frame members, the other or second flanges of said channel shaped fixed frame members being formed with a third flange directed toward the first named flange of the fixed members to form a trough which is spaced rearwardly of the joints between the removable and fixed frames and between the louvers and the side frames to which they are attached, to catch and divert any water which might pass through said joints, said third flange of each fixed side member also provided with a fourth flange, which is parallel with said second flange and extends away from the web of the channel member, and a screen secured to said fourth flange and extending across the opening.

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