Oct. 7, 1941. H. HASENBURGER ET AL 2,258,491

BAY CONSTRUCTION FOR HOUSING

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Fig. 1

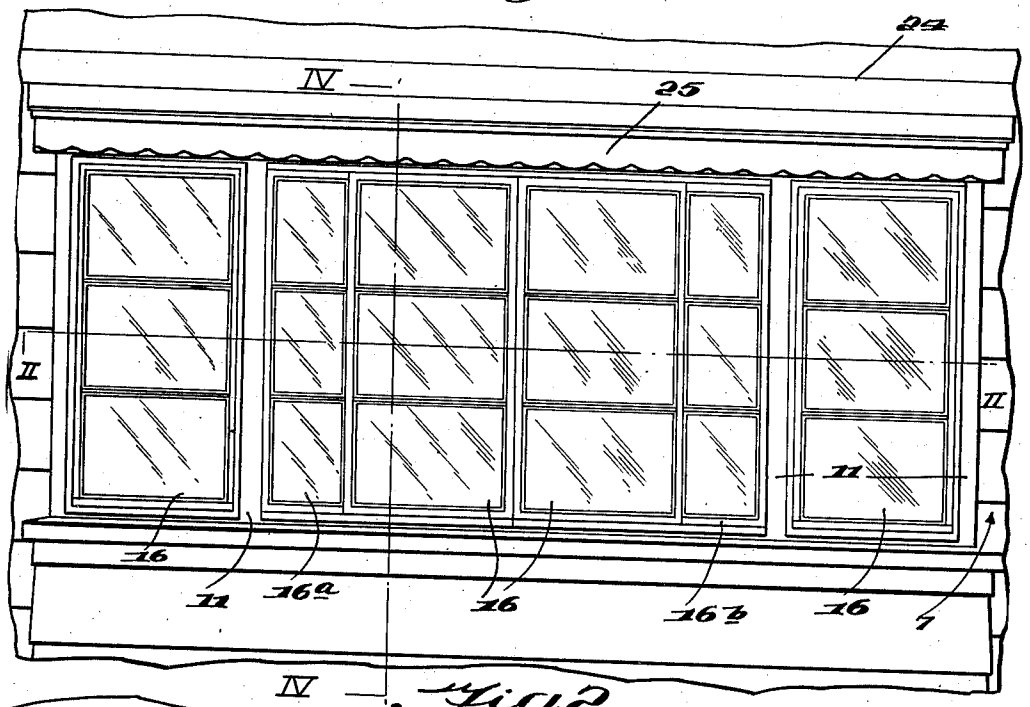


Fig. 2.

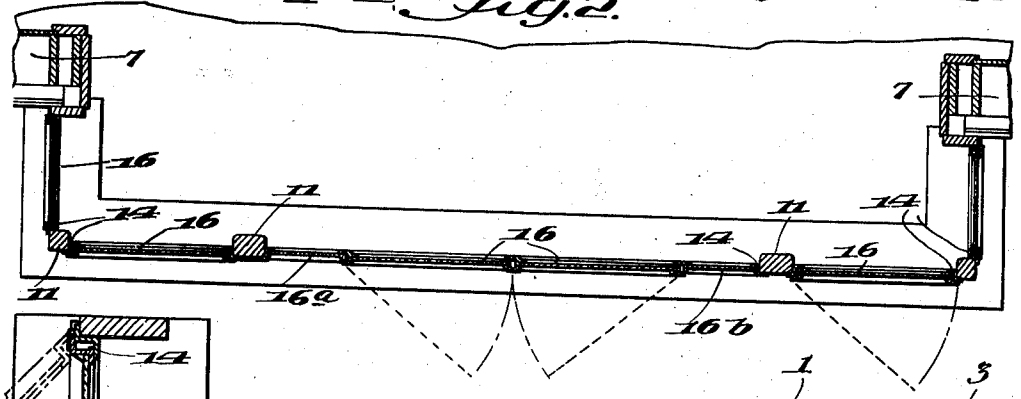
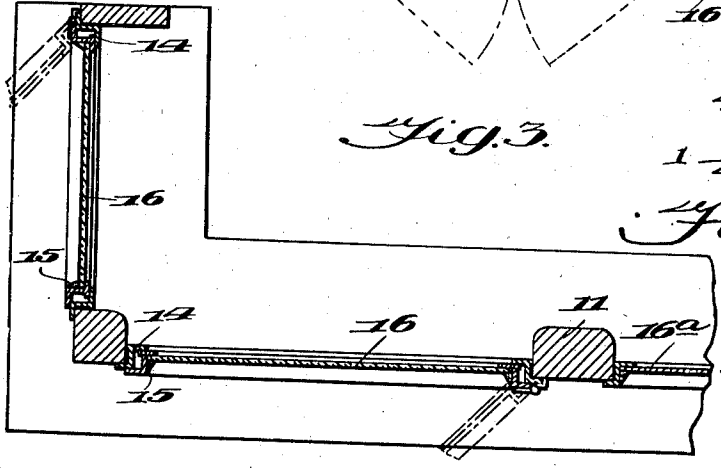


Fig. 3.



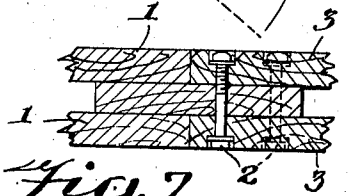


Fig. 7.

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Fig. 4

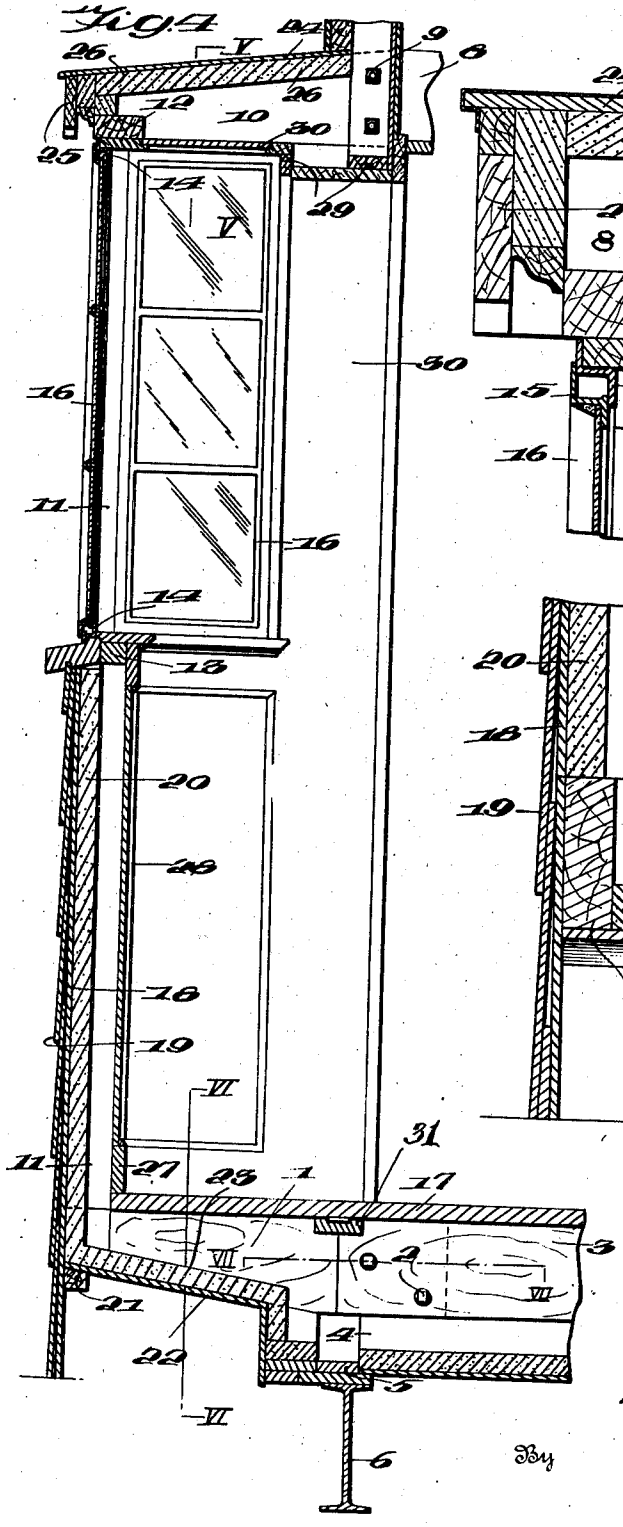


Fig. 5.

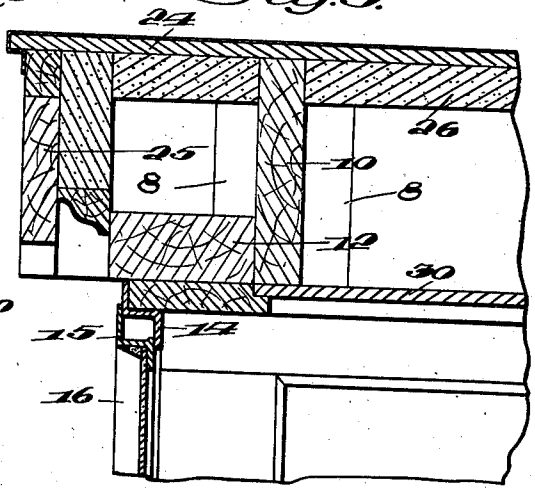
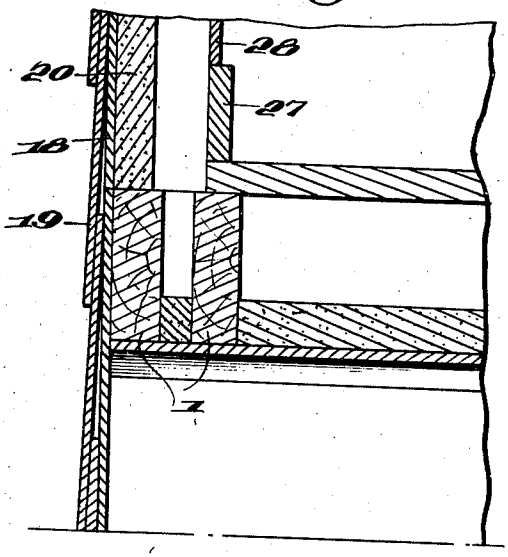


Fig. 6.



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UNITED STATES PATENT OFFICE

2,258,491

BAY CONSTRUCTION FOR HOUSING

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Application October 23, 1939, Serial No. 300,878

3 Claims. (Cl. 20—1)

This invention relates to window construction, and, more particularly, to windows of the so-called "bay" type, wherein the frame structure thereof extends outwardly beyond the vertical building wall in which the windows are placed.

The general object of the present invention resides in the provision of a windowed bay in housing construction, wherein the frame structure, walls and other elements of the bay are composed of standardized parts which may be produced under factory conditions to obtain low cost manufacture and facility and economy in erection at the building site.

For a further understanding of the invention, reference is to be had to the following description and the accompanying drawings, wherein:

Fig. 1 is a fragmentary front elevational view of a windowed bay construction formed in accordance with the present invention;

Fig. 2 is a horizontal sectional view on the plane disclosed by the line II—II of Fig. 1;

Fig. 3 is a similar view on an enlarged scale showing one of the corners of the window construction;

Fig. 4 is a vertical transverse sectional view on the line IV—IV of Fig. 1;

Fig. 5 is a vertical sectional view on the line V—V of Fig. 4;

Fig. 6 is a similar view on the line VI—VI of Fig. 4;

Fig. 7 is a horizontal sectional view taken on the line VII—VII of Fig. 4.

The windowed bay, forming the present invention, is preferably used in conjunction with a prefabricated building of the type disclosed in our companion application Serial No. 299,890, filed October 17, 1939, although its features of construction are, of course, applicable to other constructional types of buildings. In its preferred form, our improved bay construction embodies a plurality of spaced, horizontally placed extension joists 1, the inner ends of which are bolted as at 2 to the outer ends of main floor joists 3. The joists 1 and 3 rest on blocks 4 which, in turn, are positioned on sill strips 5 carried by the upper flanges of structural steel girts 6, the latter constituting the foundation members of the building. The girts 6 also serve to support the vertical side wall 7 of the building in which the bay is formed, the wall 7 being provided with a rectangular opening for the bay construction.

The second floor or roof joists are indicated by the numeral 8, and these joists have secured thereto as at 9 extension or jack joists 10. Uniting the outer ends of the joists 1 and 10 are vertical stiles 11, which conjointly produce a rigid frame. The stiles 11 are, in turn, united by means of horizontally extending rails 12 and 13, which latter are arranged to provide an opening for a window. This window opening is interrupted by the vertical stiles 11 to receive a multiplicity of stationary metallic window frames 14. These frames comprise structural steel members which are substantially Z-shaped in cross section and are suitably secured to the vertical stiles 11. Secured to these frames are the frames 15 of a plurality of horizontally swinging windows 16. In the specific form of the invention illustrated, the windows 16*a* and 16*b* are stationarily mounted and do not open as do the remaining windows.

A flooring has been indicated at 17, which flooring extends into the bay over the extension joists 1. The frame of the bay is enclosed between the joists 1 and the rail 13 by means of a siding panel 18, the front surface of the panel bearing overlapped siding sheets 19, which are suitably attached to the panel. The rear face of the panel is preferably covered with a suitable thickness of a heat insulating body 20. Toward the lower edge thereof, the panel 18 is provided with a cleat 21 to which is secured the outer edge of a bottom closure plate 22, the inner and lower end of the plate 22 being joined with the sill strips 5. The inner face of the plate 22 may also contain a body of insulating material 23, constituting a continuation of the body 20.

The top of the bay frame is covered by a roof sheet 24, which is suitably fastened to the joist 10. This roof sheet may be equipped with a vertically depending valance strip 25, and the roof sheet or plate 24 and the valance 25 may have their under or inner faces provided with layers of heat insulating material 26. The floor 17 and the rail 13 carry the inner frame 27 in which is fitted an inner wall panel 28. Likewise, the upper horizontal rails 12 may be provided with molding strips 29 for the reception of side walls and ceiling panels 30. An upper sill rail 31 is arranged above the girt 6 and is disposed in recesses formed in the joists 1 and 3. These sill rails may be used as floor and stud supporting elements.

In view of the foregoing, it will be seen that the present invention provides a windowed bay construction for frame and other types of housing. The construction of the parts of the bay is such as to permit of their being factory produced to definite standards, thus providing for economy, both in manufacture and installation in the wall of a building. The construction is

strong, substantial and weather-tight and presents an attractive appearance when viewed from either interior or exterior points of observation.

What is claimed is:

1. In prefabricated interchangeable building construction, a plurality of horizontally extending relatively spaced floor joists, said joists being positioned so that the outer ends thereof terminate in relative registration, a sub-structure for supporting said joists, a plurality of ceiling or roof joists disposed in the same relative order as said floor joists, horizontally situated joist extensions detachably secured at their inner ends to the outer end portions of both sets of joists, said extensions constituting linear prolongations of said joists, vertical stiles united with the outer ends of at least certain of said joist extensions, and horizontally disposed rails connected at their ends with said stiles to form a window-receiving opening.

2. In prefabricated interchangeable building construction, a plurality of horizontally extending relatively spaced floor joists, said joists being positioned so that the outer ends thereof terminate in relative registration, a sub-structure for supporting said joists, a plurality of ceiling or roof joists disposed in the same relative order as said floor joists, horizontally situated joist extensions detachably secured at their inner ends to the outer end portions of both sets of joists, said extensions constituting linear prolongations of said joists, vertical stiles united with the outer ends of at least certain of said joist extensions, horizontally disposed rails connected at their ends with said stiles to form a window-receiving opening, and wall-forming members positioned exteriorly of said stiles and rails.

3. In prefabricated interchangeable building construction, a plurality of horizontally extending relatively spaced floor joists, said joists being positioned so that the outer ends thereof terminate in relative registration, a sub-structure for supporting said joists in their operative positions, a plurality of ceiling or roof joists corresponding in form and position to said floor joists, horizontally disposed joist extensions detachably secured at their inner ends to the outer end portions of both sets of joists, and frame-forming members connected with the outer portions of said joist extensions.

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