Nov. 22, 1949 E. L. GUERRANT 2,489,029

MEANS FOR PACKING PREFABRICATED DOOR FRAMES

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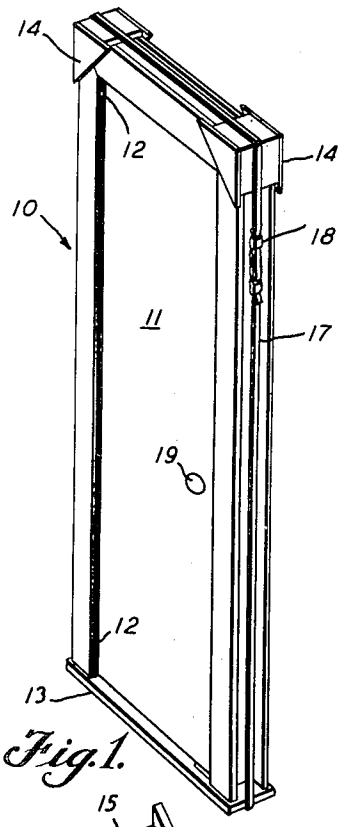


Fig. 1.

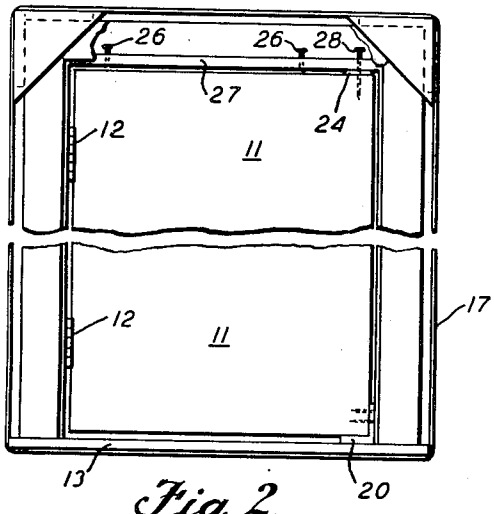


Fig. 2.

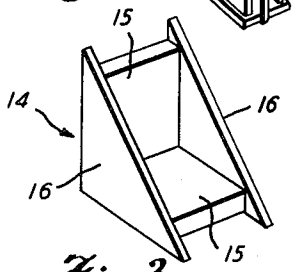


Fig. 3.

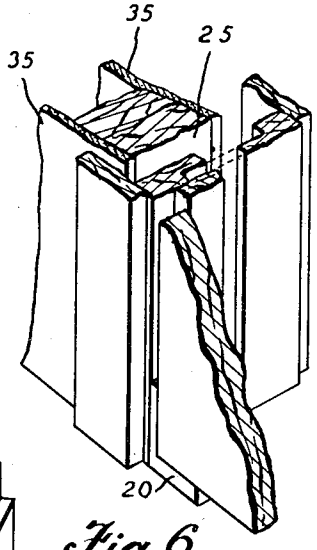


Fig. 6.

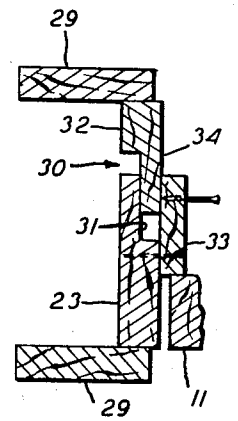


Fig. 5.

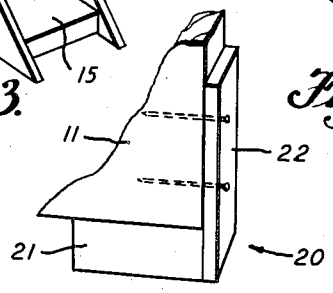


Fig. 4.

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MEANS FOR PACKING PREFABRICATED DOOR FRAMES

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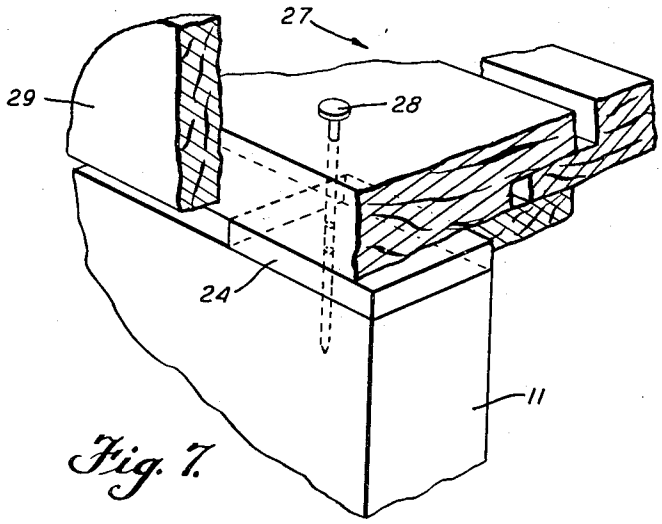


Fig. 7.

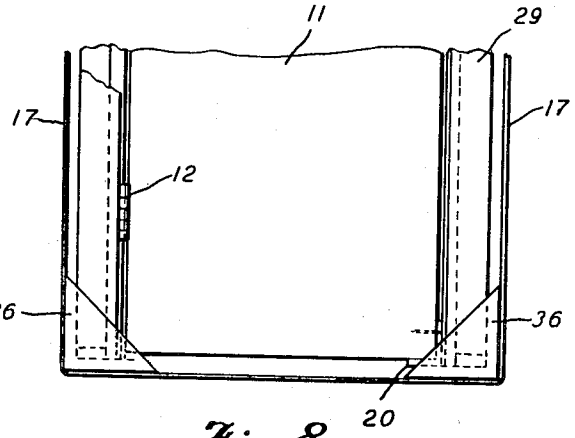


Fig. 8.

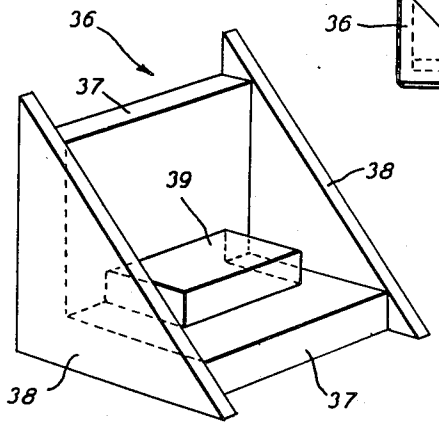


Fig. 9.

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Patented Nov. 22, 1949

2,489,029

UNITED STATES PATENT OFFICE

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MEANS FOR PACKING PREFABRICATED DOORFRAMES

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Application May 4, 1949, Serial No. 91,252

5 Claims. (Cl. 206—60)

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This invention relates to prefabricated door and frame assemblies for houses and other buildings, and has reference to assemblies having divided telesccping jambs for framing wall openings. A door frame of the type referred to is fully described in my copending application, Serial No 34,265, filed June 21, 1948.

An object of the invention is to provide an inexpensive means for packing and shipping door and frame assemblies of the referred to class and whereby said assemblies are adequately protectd against damage in shipping.

Another object of the invention is to provide a convenient method of installing the door and frame assemblies referred to in the wall openings to be framed.

Another object of the invention is to provide a packing assembly for a prefabricated door and frame assembly which rigidly secures said frame, and whereby the latter is square upon delivery.

A particular object of the invention is to support the hinged door within the frame until the door is secured in the wall opening.

These and other objects of the invention will become apparent from the following description and the accompanying drawing, wherein:

Figure 1 is a perspective view of a preferred form of the invention and showing a prefabricated door and frame assembly packed for shipping.

Figure 2 is a broken front elevation of the assembly illustrated in Figure 1.

Figure 3 is a perspective view of one of the corner packing boxes, and showing the same inverted relative to Figure 1.

Figure 4 is a broken perspective view of the lower corner of the lock edge of a door, and showing the temporary lower spacer block attached thereto.

Figure 5 is a transverse sectional view of a prefabricated door and frame assembly of the divided telescoping jamb type.

Figure 6 is a borken perspective view showing the relative positions of the wall opening, the frame, door, and lower spacer block as they appear during one phase of the installation operation.

Figure 7 is a perspective view similar to Figure 4, but showing the temporary upper spacer block

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attached to the upper edge of the door and nailed to the header of the frame.

Figure 8 is a front elevational view similar to Figure 2, of the lower end of a modified form of packing assembly showing a spacing arrangement and box assembly instead of the tie board illustrated in the preferred form of the invention.

Figure 9 is a perspective view of a lower corner box as illustrated in Figure 8.

In the drawings, the numeral 10 designates a prefabricated frame of the telescoping jamb type, and has a door 11 suspended therein by means of hinges 12. The lock and lock hardware, not shown, are also included in the assembly. A rectangular tie board 13, larger than the bottom end of the frame 10, is temporarily nailed to the lower ends of the frame, and triangular corner boxes 14 are positioned over and receive the upper corners of said frame. As particularly shown in Figure 3, each corner box 14 is comprised of a pair of blocks 15 arranged at right angles with respect to each other and secured along their outer edges by means of opposing angular sides 16. Preferably, the boxes 14 are made of lumber and nailed together, but within the present invention these members may be made of other suitable material. In assembly, the boxes 14 are positioned over and receive the upper corners of the frame 10, and a steel tension or crating strap 17 is positioned around said boxes and the tie member 13. The ends of the strap 17 are joined by means of one or more clips 18, ordinarily used for such purpose. By reason of the described packing assembly, it will be noted that corners of the frame 10 are protected from damage during shipping, and that the assemblies may be stacked one upon the other without the frames 10 rubbing together. The door knobs 19 are preferably removed for shipping so as not to project beyond the triangular surfaces 16 of the corner boxes 14, or the longitudinal edges of the tie member 13.

As particularly shown in Figure 4, there is an L-shaped lower support block 20 comprised of two smaller blocks or members 21 and 22 secured at their corners and which L-shaped block or support is positioned around the lower edge of the door 11 and the lock edge of said door. The upright member 22 is nailed into the vertical edge of the door, and when the door is within

the frame, said vertical member is positioned between the door's edge and the adjacent door jamb 23. The lower member 21 fits between the bottom edge of the door 11 and the upper surface of the tie member 13.

An upper spacer block 24 is nailed to the upper edge of the door 11 and, in assembly, is positioned inwardly of the header portion of the frame 10, in the manner to be described. By reason of the positions of the lower and upper spacer blocks 20 and 24, it will be apparent that the door 11 is well supported in the frame 10 for shipping when the strap 17 is tightened, and that the arrangement and attachment of said blocks is such that they will not interfere with opening the door after the frame 10 has been installed in the wall opening 25 to be framed. The halves of the frame 10 may be additionally secured for shipping by driving nails 26 through the header 27 of said frame, but said nails should not be completely driven in order that they may be readily removed when necessary. As shown in Figure 7, the nail 28 for holding the upper spacer block 24 in place should be of such a length that it may be driven into the header 27 and into the upper edge of the door 11. It will be noted that the described arrangement of the nails 26 and 28 does not mar the appearance of the door 11. The nail 28 serves the additional purpose of holding the door 11 shut during shipping.

The frame 10, illustrated in detail in Figures 5 and 6, extends vertically along each side of the door 11 and across the top thereof, and includes casings 29 on each side of a telescoping jamb arrangement 30. One of the jambs 23, previously referred to, is L-shaped in cross section and has its recessed portion or groove 31 outwardly positioned relative to the door opening and toward the component L-shaped jamb 32 which is oppositely arranged. A stop 33 is nailed to the surface of the first referred to jamb member 23 and is arranged to cover the recessed portion or groove 31. In assembly, the groove 31 receives the tongue 34 of the second referred to jamb member 32.

When installing the frame 10, the packaged assembly, as illustrated in Figure 1, is uncrated near the wall opening 25 to be framed. The strap 17 is cut, and the tie member 13 and the corner boxes 14 are removed. The nails 26 and 28 in the header 27 are then removed, and the grooved side of the frame 10, to which the door 11 is hinged and secured, is positioned in the wall opening 25 and the jamb 23 is shimmed or blocked in place and the casing 29 is nailed to one wall surface 35. The tongue side of the frame 10 is then positioned in the wall opening 25 and the casing 29 is nailed to its adjacent wall surface 35. The jamb members 23 and 32 are arranged in telescoping position, as shown in Figure 5, and are brought together as closely as possible, after which nails are driven through the stops 33 and through the respective jamb members.

The form of the invention illustrated in Figures 8 and 9 is the same as illustrated in Figures 1 through 7 with the exception of an alternate means for rigidly securing the lower ends of the frame 10 relative to each other. Triangular boxes 36, similar to the previously described boxes 14, are positioned over and receive the lower ends of the frame 10. Each box 36 is comprised of a pair of blocks 37 positioned at right angles along adjoining edges and secured on opposite sides by means of triangular sides 38. Within the right angle formed by the adjacent blocks 37, there is a rectangular spacer 39 which, in assembly, is received between the casing members 29 of the frame and bears against the jamb arrangement 30. The described L-shaped spacer block 20 is positioned along side of and beneath the edge of the door 11 in the manner previously described, and rests upon the surface of the lower block 37 of the adjacent box 36. The tension band 17 is positioned around the upper and lower boxes 14 and 36, and by reason of the location of the hinges 12 and the spacer blocks 20 and 24, the assembly is well secured and protected for the purposes described.

The described form of the invention may be made and installed in many ways within the scope of the appended claims.

What is claimed is:

1. A packing assembly for a rectangular door frame including side members joined by a header at their upper ends, and having a door mounted therein, and comprising: means rigidly securing the lower ends of said side members relative to each other, boxes positioned over and receiving the upper corners of said frame, a spacer block positioned between the bottom edge of said door and said means securing the lower ends of said side members, and a tension strap around said frame and said boxes in a plane parallel to said frame and intermediate the facing sides thereof.

2. A packing assembly for a rectangular door frame including side members joined at their upper ends by a header, and having a door mounted therein, and comprising: means securing the lower ends of said side members relative to each other, boxes positioned over and receiving the upper corners of said frame, an L-shaped spacer block positioned between said means securing the lower ends of said side members and the bottom of said door, said L-shaped spacer block extending upwardly between the lock edge of said door and the inner surface of the adjacent said side member, said L-shaped spacer block being detachably secured to said door, and a tension strap around said frame and said boxes in a plane parallel to said frame and intermediate the facing sides thereof.

3. A packing assembly for a rectangular door frame including side members joined at their upper ends by a header, and having a door mounted therein, and comprising: a tie member in the form of a flat board mounted across the lower ends of said side members, boxes positioned over and receiving the upper corners of said frame, a spacer block positioned between the bottom edge of said door and the upper surface of said tie member, and a tension strap around said tie member and said boxes in a plane parallel to said frame and intermediate the facing sides thereof.

4. A packing assembly for a rectangular door frame including side members joined at their upper ends by a header, and having a door mounted therein, and comprising: a tie member in the form of a flat board mounted across the lower ends of said side members, boxes positioned over and receiving the upper corners of said frame, an L-shaped spacer block positioned between the upper surface of said tie member and the bottom of said door and extending upwardly between the locked edge of said door and the inner surface of the adjacent said side member, and a tension strap around said tie member and said boxes in a plane parallel to said frame and intermediate the facing sides thereof.

5. A packing assembly for a rectangular door frame of the telescoping divided-jamb type in-

cluding vertical side members joined at their upper ends by a header, and having a door mounted therein, and comprising: a tie member in the form of a flat board mounted across the lower ends of said vertical members, boxes positioned over and receiving the upper corners of said frame, spacer blocks above and beneath said door and respectively positioned adjacent said header and said tie member, nails driven through the said header and at least one of said nails being positioned through the upper of said blocks and extending into said door and a tension strap around said tie member and said boxes in a plane

parallel to said frame and intermediate the facing sides thereof.

EDMONDS L. GUERRANT.

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