Nov. 3, 1959 J. D. HUTCH 2,911,095

PACKAGED PREHUNG STORM DOOR

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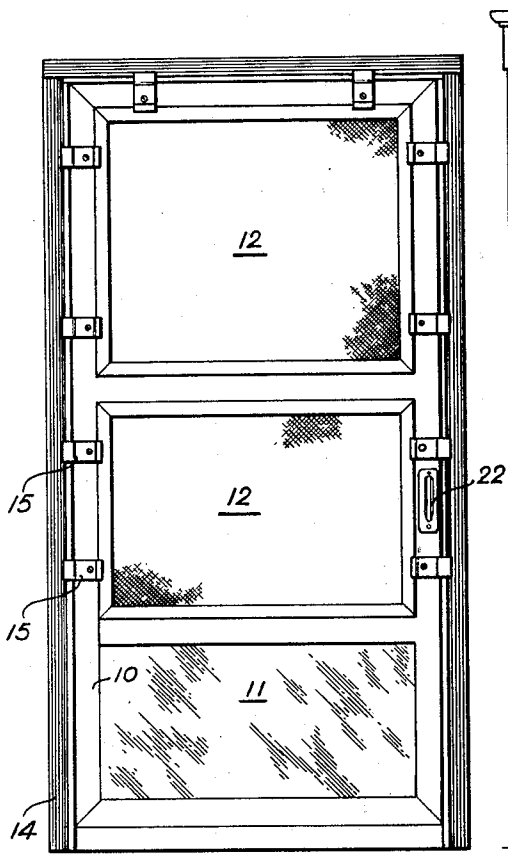


FIG. 1

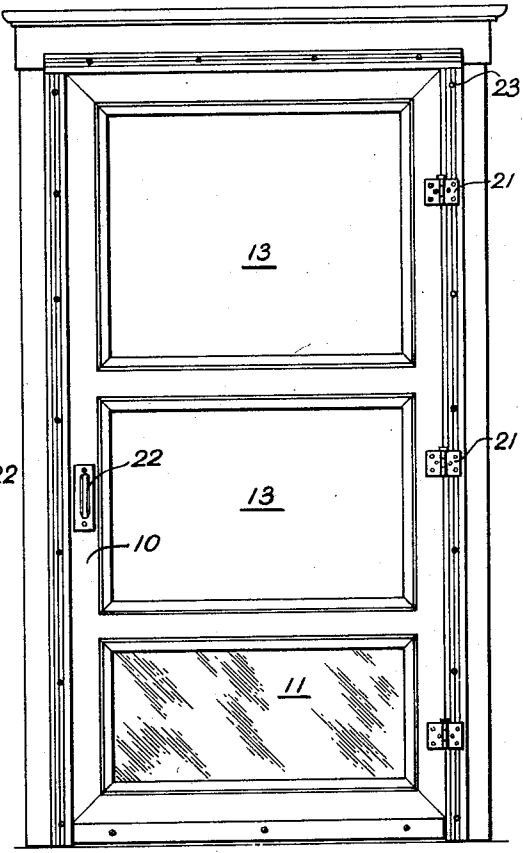


FIG. 2

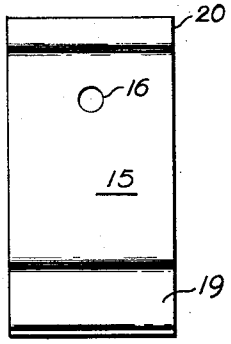


FIG. 4

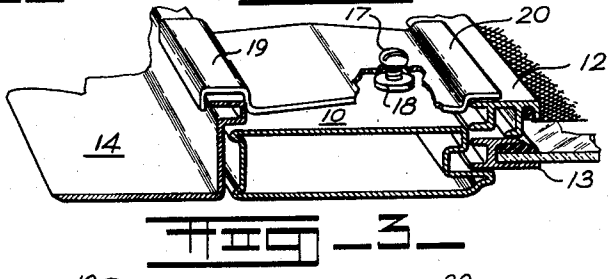


FIG. 3

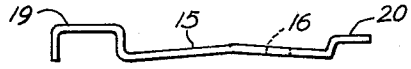


FIG. 5

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PACKAGED PREHUNG STORM DOOR

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4 Claims. (Cl. 206—60)

This invention relates to a packaged prehung storm door.

The principal object of the invention is the provision of means for holding a storm door, the glazed and screened sash and the mounting frame thereof in an integral package.

A further object of the invention is the provision of a factory packaged storm door complete with glazed and screened sash and mounting frame.

A still further object of the invention is the provision of a prehung storm door package in which a plurality of clips hold the various parts of the door and its mounting frame in assembled relation.

A still further object of the invention is the provision of a mounting clip that may be secured to a storm door to engage a mounting frame thereabout and glazed and screened sash therein.

The packaged prehung storm door disclosed herein comprises an improvement in the art relating to storm doors and more particularly in that a clip is disclosed whereby a storm door may be secured in position in a precut mounting frame of the Z bar type in properly spaced relation thereto so that when the storm door and mounting frame are positioned in a doorway structure it is only necessary to secure the mounting frame to the doorway structure in order to completely mount the storm door therein. In the past, the practice has been to supply storm doors in various sizes with cut lengths of Z bar mounting frame and separate glazed and screened sash for the storm door. The workman installing the storm door found it necessary to recut the Z bar mounting frame and position it on the doorway structure and then locate the storm door in the frame and install the necessary hardware including the hinges and latch mechanism, etc. Subsequently the workman would insert the glazed and screened sash to complete the job. By utilizing the present invention the workman takes the complete storm door package, places it in the doorway structure and attaches it thereto by positioning fasteners through the Z bar mounting frame into the doorway structure. As the Z bar mounting frame and the glazed and screened sash are positioned on the door the workman simply removes the plurality of clips and substitutes the usual sash retaining fasteners therefore to complete the hanging of the door.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being the intention to cover all changes and modifications of the example of the invention herein chosen for purposes of the disclosure, which do not constitute departures from the spirit and scope of the invention.

The invention is illustrated in the accompanying drawing, wherein:

Figure 1 is a rear view of the storm door package.

Figure 2 is a front view of the storm door package installed in a doorway structure.

Figure 3 is a perspective detail with parts broken away and parts in cross section showing one of the clips holding the storm door package assembly shown in Figures 1 and 2.

Figure 4 is a top plan view of the clip shown in Figure 3.

Figure 5 is an end view of the clip shown in Figures 3 and 4.

By referring to the drawing and Figure 1 in particular it will be seen that a storm door **10** having a metal panel **11**, a pair of screened sash **12, 12** and a pair of glazed sash **13, 13** is shown positioned in an inverted U-shaped Z bar mounting frame **14**.

The storm door **10** is held in the Z bar mounting frame **14** by a plurality of clips **15, 15** each of which is generally rectangular in shape as may be best seen by referring to Figures 3, 4 and 5 of the drawings. Each of the clips **15** has an opening **16** therein through which a fastener **17** is positioned and engaged in an internally threaded hollow rivet **18** positioned in the storm door **10**. The clips **15** have channels **19** transversely of one of their ends and offset flanges **20** across the opposite ends. By referring to Figure 3 of the drawing it will be seen that each of channels **19** is engaged over that portion of the Z bar frame **14** that forms the door stop against which the storm door **10** is normally engaged. The offset flanges **30** are engaged over the screened sash **12** and the glazed sash **13** which are positioned in superimposed relation in the storm door package.

In assembling the storm door package disclosed herein a storm door of desired size is fitted with three sections of the Z bar mounting frame **14** with the space between the edge of the door **10** and the frame **14** being properly provided so that the door **10** is positioned in the inverted U-shaped frame formed of the Z bar mounting frame members **14** in exactly the position it will occupy when the frame is mounted in a doorway structure, as shown in Figure 2 of the drawing. Thus the storm door **10** is in effect prehung in the Z bar mounting frame **14** and held in that position by the plurality of clips **15** as heretofore described.

The hardware including hinges **21, 21** and a latch **22** may be installed by the factory or they may be installed by the workman at the time the storm door and mounting frame package is installed. In either event the clips **15** properly position the frame **14** with respect to the door to facilitate such installation.

When the storm door package has been mounted in a doorway structure as on the door frame, as seen in Figure 2, a plurality of fasteners **23** are positioned through the Z bar mounting frame **14** in openings previously provided therein, if desired, and the clips **15** are then removed. The normal movable sash retaining fasteners are then secured to the door **10** in the same threaded hollow rivets **18** that the clips **15** were attached to.

It will thus be seen that a packaged prehung storm door has been disclosed which meets the several objects of the invention and having thus described my invention, what I claim is:

1. A storm door and mounting frame package comprising in combination; a storm door having glazed and screened sash positioned therein with said mounting frame positioned on the sides and across the top of said storm door, a plurality of clips and means securing said clips to said storm door, said clips temporarily engaging said frame and said screened and glazed sash and holding said frame storm door, screened and glazed sash in predetermined fixed relation to one another.

2. The storm door and mounting frame combination set forth in claim 1 and wherein said means securing said clips to said storm door comprise a plurality of hollow internally threaded rivets positioned in said door and wherein fasteners are positioned through said clips and engaged in said hollow threaded rivets.

3. The storm door and mounting frame combination set forth in claim 1 and wherein the mounting frame is of

the Z bar type including a longitudinal door stop section engaged on the back of said storm door and positioned in under said clips.

4. The storm door and mounting frame combination set forth in claim 1 and wherein the glazed and screened sash are positioned in said door in superimposed relation and in under said clips.

No references cited.