June 16, 1942. DE WITT RAMSEY 2,286,573

DOOR MOUNTING

Filed July 29, 1940

Fig. 1.

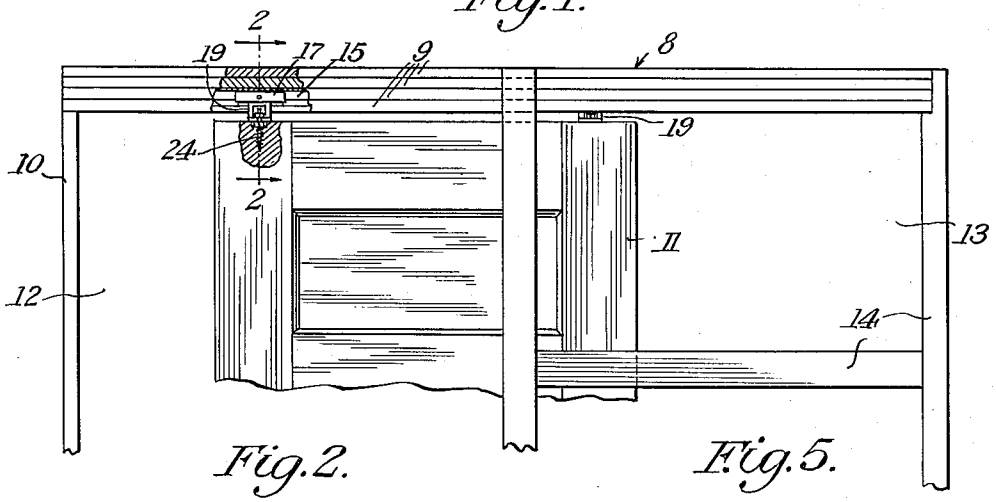


Fig. 2.

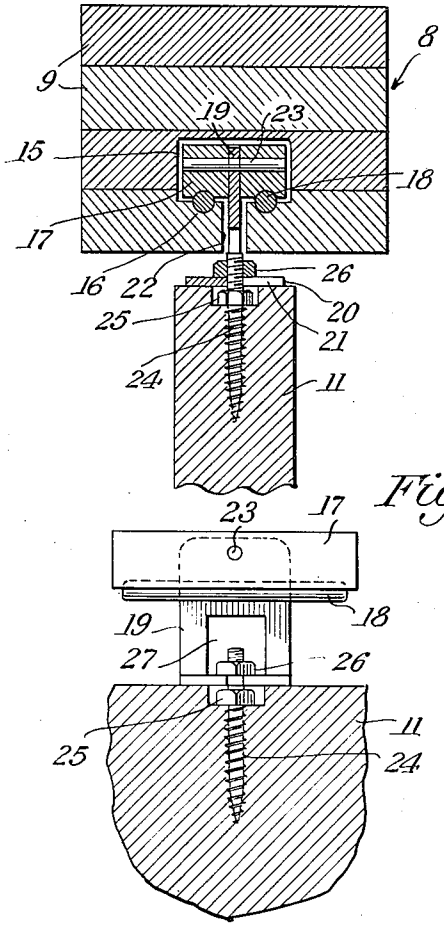


Fig. 5.

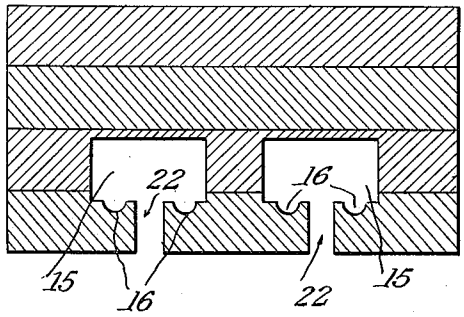
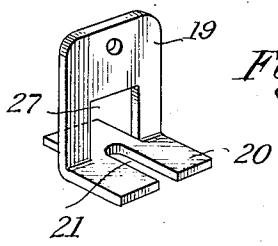


Fig. 3.

Fig. 4.



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DOOR MOUNTING

De Witt Ramsey, Coral Gables, Fla.

Application July 29, 1940, Serial No. 348,221

1 Claim. (Cl. 16—87)

The present invention relates to improvements in door mountings and is especially devised for hanging sliding doors in dwellings, bookcases, cabinets and the like.

An object of the invention resides in the provision of a door mounting having a hanger designed so that it may be quickly and easily disconnected from a support.

Another object of the invention resides in the provision of a hanger which is relatively simple and durable in construction.

A further object of the invention resides in the provision of a hanger which may be produced at a relatively low cost.

The invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claim.

In describing my invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a fragmentary front elevational view of a door and mounting embodying the features of the present invention.

Figure 2 is an enlarged vertical sectional view being taken substantially on line 2—2 of Figure 1.

Figure 3 is an elevational view of the hanger blade attached to the door with the door being shown in section.

Figure 4 is a perspective view of the hanger blade detached from its sliding block.

Figure 5 is a vertical sectional view of the laminated header and illustrating a double track.

In its present illustration, the invention includes a laminated header which is generally designated by the reference numeral 8, said header being formed of a plurality of plies 9 of wood held in laminated relation by any desired means. The lamination of the material adds strength to the header and reduces to a minimum the amount of warpage. The header 8 is adapted to be supported in the door frame 10, which frame may be of the type used for sliding doors either interior or exterior, for cupboards, cabinets and the like. As shown in Figure 1 of the drawing, however, the header 8 is used with a single door 11 which conceals the opening 12 formed in the frame. When in open position, the door 11 is received within the pocket 13 which is defined by the framework 14.

During the fabrication of the header 8, certain of the plies of wood are milled internally to form a longitudinally extending recess 15 and grooves 16. A block 17 is slidably mounted in the recess 15, said block carrying members 18, adapted to engage the grooves 16. The grooves 16 and members 18 assure positive steerage as the door is operated so that no side drag will be encountered by side shifting of the block 17. It is to be understood that any number of tracks may be formed in a single header and in Figure 5 of the drawing, the header is illustrated with a pair of recesses 15 formed therein. Each recess is, of course, formed with grooves 16 for receiving the members 18.

A hanger blade 19 is carried by the block 17, said hanger blade being preferably stamped from sheet metal and formed with a foot portion 20 slotted as indicated at 21. The hanger blade 19 moves within a vertical slot 22 formed in the header 8 which communicates with the recess 15 and said hanger blade extends within the block 17 and is attached thereto by means of a transverse pin 23. The blade 19 forms the means of attaching the door 11 to the sliding block 17 and thus the sliding block and hanger blade become an integral part of the door or sash 11. In practice, two of these units are used to hang each door or sash.

An exteriorly threaded screw bolt 24 is held by means of a nut 25 in the top of the door 11, the upper end of said screw bolt extending through the slot 21 of the foot portion 20 and is held therein by means of the nut 26. As more particularly shown in Figure 4 of the drawing, the hanger blade 19 is cut out as indicated at 27 to facilitate the placement and removal of the nut 26 so as to attach and detach the door 11.

The advantages of the slide unit including the block 17 and members 18 which are movable in the recess 15 and grooves 16, over the rolling type unit, are a quiet, smooth, positive and long-life operation as well as economy in initial expense and upkeep. If desired, the grooves 16 may be formed in hardwood, metal or any other suitable material, so as to provide a hard smooth sliding surface thus giving minimum of friction and a smooth, silent action. The block 17 may be formed of hardwood, metal or any other suitable material and the primary function of the block is to provide a holder for the anti-friction slide members 18. As afore indicated, however, the block 17 carries the hanger blade 19 which, when in operating position, is attached to the top of the door 11.

The units when assembled at the factory in-

clude the header 8, blocks 17 and hanger blade 19, while the door 11 will be provided with the screw bolts 24 ready for attachment to the foot 20. The advantages of this type of invention will mean a material saving of time and effort in the construction of a building, cabinet or the like as well as the assurance that the units will operate satisfactorily by reason of the correct alignment and installation of the several parts of the invention.

Also it will be understood, of course, by those skilled in the art that variations in the hereinabove described device involving the substitution of substantial equivalents for the devices described are intended to be comprehended within the spirit of the present invention and that the invention is capable of extended application and is not confined to the exact showing of the drawing nor to the precise construction described and, therefore, such changes and modifications may be made therein as do not affect the spirit of the invention nor exceed the scope thereof as expressed in the appended claim.

What is claimed is:

In a door mounting, a hanger member formed from an elongated rectangular shaped plate comprising a vertically depending section having an aperture in the upper center portion and a rectangular recess in the lower center portion, a horizontal section extending laterally from the lower edge of the vertical section having a width approximately corresponding to the width of the upper section, the said horizontal section having an elongated slot opening at the outer edge thereof and directed inward toward the vertical section, and a flange extending horizontally from the bottom of the vertical section in a direction opposed to the horizontal section and corresponding in contour to that of the recess in the lower center portion of the vertical section of the hanger member.

DE WITT RAMSEY.