April 17, 1934. C. D. BROUYETTE 1,955,223

HANGER BRACKET

Filed Nov. 10, 1932

Fig. 1.

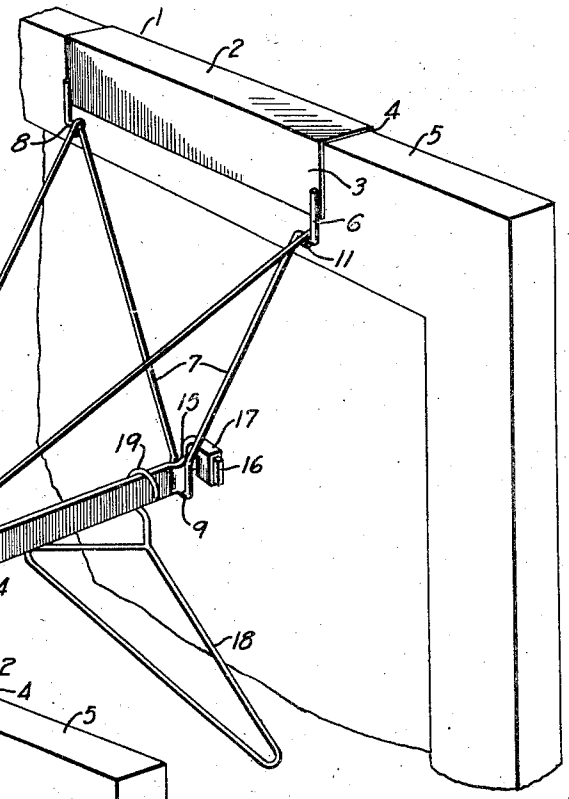


Fig. 2.

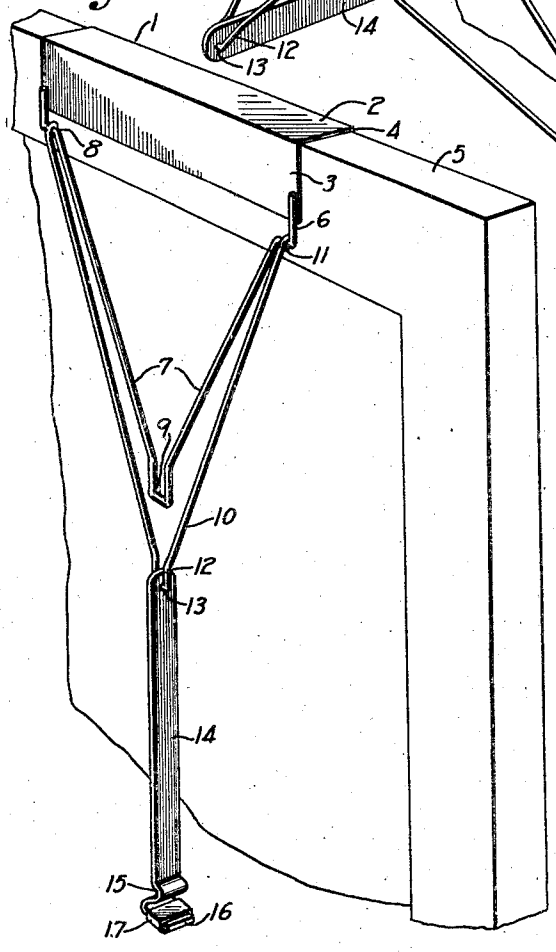
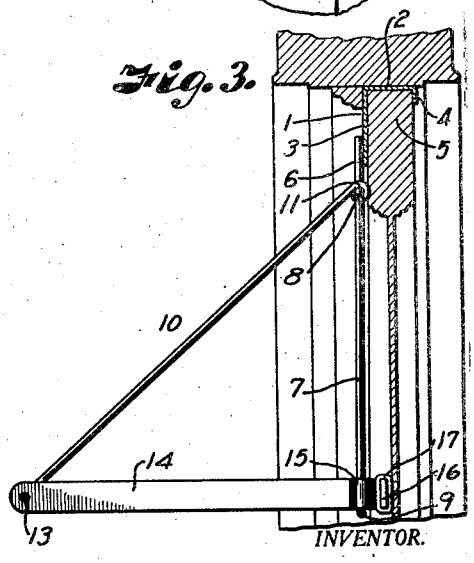


Fig. 3.



INVENTOR.

Charles D. Brouyette.

BY

ATTORNEY.

Patented Apr. 17, 1934 1,955,223

UNITED STATES PATENT OFFICE

1,955,223

HANGER BRACKET

Charles D. Brouyette, Topeka, Kans.

Application November 10, 1932, Serial No. 641,999

9 Claims. (Cl. 211—104)

My invention relates to collapsible hanger brackets and has for its principal objects to provide a device of that character adapted for removable application to a closet door or like support so that it may be moved from place to place, which may hang closely against the door to occupy a minimum space when not in use, which may be easily and quickly extended to functional position and provide a substantially rigid support when so extended, and which will not mar the surface of the door or carrying body to which it is applied; the device being particularly adaptable for use in residences, apartments, or offices having inadequate hanger facilitates and as a supplement to permanent hanger equipment.

In accomplishing the above objects of the invention I have provided improved details of structure, the preferred form of which is illustrated in the accompanying drawing, wherein:

Fig. 1 is a perspective view of a hanger embodying my invention, illustrated in functional position and as it appears when applied to a closet door.

Fig. 2 is a similar view of the device as it appears when collapsed.

Fig. 3 is a sectional view of the device in functional position as it appears when the door is closed.

Referring more in detail to the drawing:

1 designates a clip, preferably formed of thin sheet metal including a web 2 adapted for overlying the upper edge of a closet door and having edge flanges 3 and 4 adapted for lying flat against opposite faces of the door rail 5 to rigidly mount the bracket on the door; the flange 4 serving as a hook to hold the clip in place and the flange 3 as a brace to hold the supporting members rigid against lateral or vertical rocking movement.

Fixed to the outer face of the flange 3 by welding or otherwise are the upper ends 6 of a supporting frame 7, preferably consisting of wire bent to triangular formation and offset adjacent the ends of the wire to provide pivot bar sections 8, the wire being shaped at the apex of the frame to provide a latch bar seat 9.

10 designates a strut of triangular formation, also preferably composed of wire, having eyelets 11 at the ends of the frame legs pivotally mounted on the bar sections 8 of the frame 7 and shaped at the apex of the strut to provide parallel guide portions 12 and a transverse pivot bar section 13.

Pivotally mounted on the bar section 13 at the apex of the strut member is a thrust bar 14 preferably formed of strap metal of a thickness to fit snugly within the seat portion 9 of the frame 7 to be retained thereby in perpendicular position, and preferably provided with a corrugation 15 for receiving one of the side bars of the seat 9 on the frame 7, to latch the bar in extended position; the free end of the thrust bar being bent at a right angle to provide a shoe 16 for abutment against the door panel to assist the latch in absorbing the load imposed on the bar by the weight of wearing apparel or whatever may be suspended from the hanger. The shoe 16 is preferably lined with a pad 17 of non-abrasive material to avoid marring the finish of the door panel.

18 designates an ordinary clothes hanger having a hook 19 adapted to fit over the thrust bar for suspending articles of apparel from the hanger.

The device, when collapsed, may be easily carried from place to place or stored in a minimum space. The hanger may be mounted on a closet door by slipping the clip member over the edge of the upper rail of the door, so that the web and its flanges fit snugly against said edge and opposite faces of the rail, with the wide flange 3 along the inner face to firmly brace the hanger when it is extended for use and weight applied thereto, the narrow flange serving as a hook to hold the clip in place without detracting from the appearance of the door when the door is closed.

When the clip member is mounted on the door rail as described, the frame 7 stands away from the face of the rail a distance equal to the width of the flange 3 so that the eyelets 11 may pivot on the frame bars 8. When the hanger is to be used, the strut is extended outwardly on its pivotal mounting, the thrust bar is raised and its corrugated portion located in latching relation with the seat 9, when the shoe 16 at the inner end of the thrust bar will rest in bracing abutment with the door channel.

When the bracket is extended as described articles of wearing apparel may be suspended from the thrust bar by means of the ordinary coat hangers, the load induced by weight of the suspended articles being carried from the clip 1 through the strut 10 and frame 7 and any tendency of the frame to bend under the load being resisted by abutment of the thrust bar against the door panel.

It is apparent that any tendency of the carrier to twist laterally is obviated by the angular arrangement of the strut and frame legs and the extended surface contact of the clip with the door rail.

It is further apparent that as all of the load on the hanger except that resulting from sus-

pension is in the direction of the door, there is no tendency of the clip to spread, but, on the contrary, to hug the rail. Consequently a clip of metal sufficiently thin to avoid interference with closing of the door may be employed.

What I claim and desire to secure by Letters Patent is:

1. A hanger bracket comprising a body portion including a clip adapted for attachment to a supporting rail and a frame suspended from said clip, a triangular strut pivotally mounted on the body portion, and a thrust bar pivotally mounted on said strut and having a corrugation adapted for latching engagement with said frame.

2. A hanger bracket comprising a body portion including a clip adapted for attachment to a supporting rail and a frame suspended from said clip, a triangular strut pivotally mounted on the body portion, and a thrust bar pivotally mounted on said strut and adapted for latching engagement with said frame, the thrust bar having a laterally bent shoe at its free end adapted for bracing abutment with a wall element beneath said rail.

3. A hanger bracket including a clip having a web portion and edge flanges adapted for fitting over the edge of a door rail, a triangular frame rigidly suspended from one of the clip flanges, having a seat for a thrust bar, a triangular strut pivotally mounted on said frame, a thrust bar pivotally connected with said strut and adapted for downward sliding movement into said seat, and means on the thrust bar for engaging the frame to prevent back and forth movement of the thrust bar when located in said seat.

4. A hanger bracket including a sheet metal clip adapted for removable mounting on a door rail, having a web adapted for lying on the rail edge and flanges adapted for surface contact with opposite sides of the rail, a triangular wire frame having laterally offset legs attached to one of the clip flanges, and a bar seat in its lower apex portion, a triangular wire strut having its legs pivotally mounted on the offset portions of the frame legs, and a thrust bar pivotally mounted on the lower apex portion of the strut and having a corrugated portion adapted for latching engagement in the seat in said frame member.

5. A hanger bracket including a sheet metal clip adapted for removable mounting on a door rail, having a web adapted for lying on the rail edge and flanges adapted for surface contact with opposite sides of the rail, a frame member having offset legs attached to one of the clip flanges and provided with a bar seat, a triangular wire strut having its legs pivotally mounted on the offset portions of the frame legs, and a thrust bar pivotally mounted on the lower apex portion of the strut and having a corrugated portion adapted for latching engagement in the seat in said frame member, the thrust bar having an extension beyond said latch portion provided with a lateral shoe for the purpose set forth.

6. In a hanger bracket, a back member including a frame having a thrust bar seat provided with retaining side members, a strut pivotally connected with said back member, and a thrust bar pivotally mounted on said strut and engageable in said frame seat to retain said bar in edgewise position and having means lockingly engageable with one of said side members for retaining the strut in extended relation to the back member.

7. In a hanger bracket, a back member including a triangular wire frame having a substantially U-shaped seat at its apex, a triangular wire strut pivotally mounted on said back member, and a flat thrust bar pivotally mounted in the apex of said strut and adapted for location in said frame seat to retain the bar in edgewise position.

8. In a hanger bracket, a back member having a thrust bar seat, a triangular wire strut pivotally mounted on the back member having a substantially U-shaped seat at its apex, and a thrust bar pivotally mounted in said seat and engageable by the sides thereof to retain the bar in vertical edgewise position, the thrust bar being engageable in the frame seat to retain the strut in extended relation to the back member.

9. A collapsible hanger bracket comprising a back member including a depending frame having an upwardly facing seat portion, a strut bar bent at its center and having laterally and upwardly diverging ends pivotally connected with the back member and forming braces to retain said central bent portion in pivotal alignment with the center of the back member, and a thrust bar pivotally mounted at its forward end on the central bent portion of the strut and having a groove at its rear end engaging said seat portion to support the rear end of the thrust bar whereby the thrust bar forms a hanger support between said pivotal support at its forward end and said seat support at its rear end.

CHARLES D. BROUYETTE.