March 17, 1925. 1,530,407

A. RANSON

HANGER RACK

Filed Dec. 20, 1923

Fig. 1.

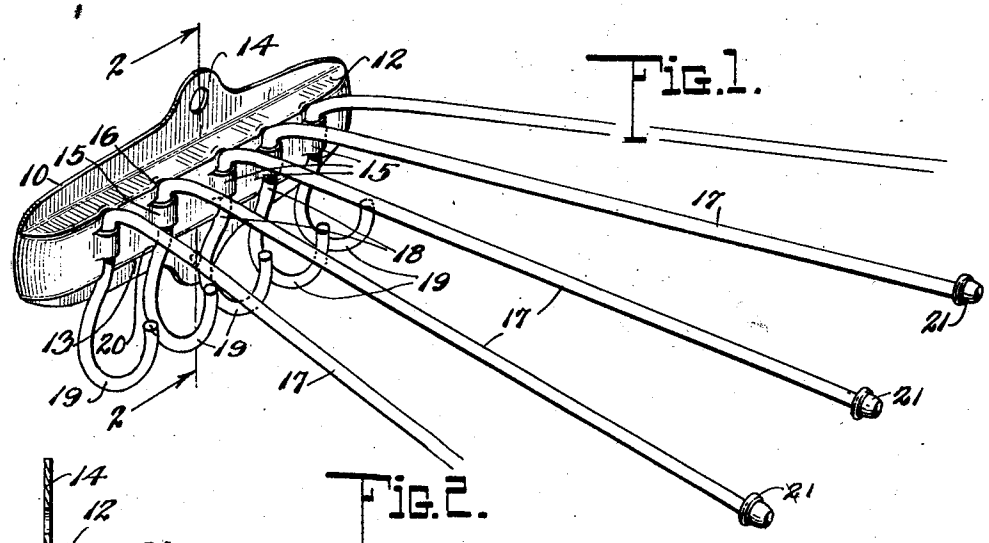


Fig. 2.

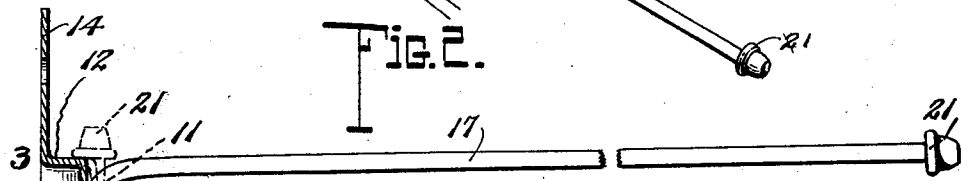


Fig. 3.

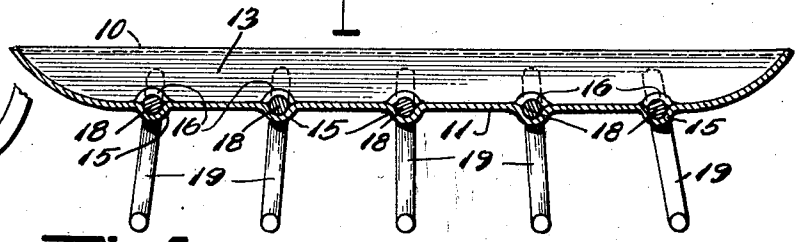
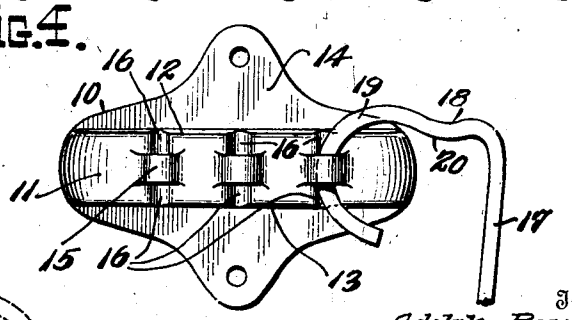


Fig. 4.



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UNITED STATES PATENT OFFICE.

ADOLPH RANSON, OF SOUTH CHARLESTON, WEST VIRGINIA.

HANGER RACK.

Application filed December 20, 1923. Serial No. 681,727.

To all whom it may concern:

Be it known that I, ADOLPH RANSON, a citizen of the United States, residing at South Charleston, in the county of Kanawha and State of West Virginia, have invented certain new and useful Improvements in Hanger Racks, of which the following is a specification.

This invention relates to a hanger rack, and particularly to a construction embodying a supporting plate and hanger rods mounted thereon for movement from a horizontal to a vertical position.

In devices of this character it is particularly desirable to form the supporting plate from a single piece of material by a stamping and cutting operation, and to provide thereon bearing surfaces for supporting the rods in either of their positions. It is also important to provide a construction of hanger rod which may be completely disconnected from the supporting plate in order to economize in space in the shipping and storage of the racks and to provide for the use of the desired number of rods upon the support.

The invention has for an object to provide a novel and improved construction comprising a supporting plate formed with a loop portion and supporting faces above and below the same, together with a cooperating hanger rod having a head at one end and a hook portion at the opposite end forming a shoulder to engage the lower shoulder upon the supporting plate when the rods are in horizontal position for use.

A further object of the invention is to provide a new construction of supporting plate having a projected body portion formed with upper and lower bearing faces and an open-ended loop adapted to receive a hanger rod formed with an angular holding portion merging into a curved hook to provide an engaging face to prevent vertical movement of the rod in the loop by engagement with the under face of the projected body.

Other and further objects and advantages of the invention will be hereinafter set forth and the novel features thereof defined by the appended claims.

In the drawing:

Figure 1 is a perspective of the invention in position for use;

Figure 2 is a vertical section on line 2—2 of Figure 1;

Figure 3 is a section on line 3—3 of Figure 2; and

Figure 4 is a detail elevation showing the rod in position for removal.

Like characters of reference refer to like parts throughout the several figures of the drawing.

The supporting plate 10 may be formed of any desired material, size or configuration, and suitably ornamented. In the form illustrated this plate is provided with a body portion 11 stamped outward therefrom to form a substantially flat supporting surface 12 at the top of the body and a similar surface 13 at the under face thereof. The plate is further formed with attaching flanges 14 which may be formed of any desired or convenient shape. The body portion is provided upon its outer face with a loop 15 open at its opposite ends and bent outwardly from the plate. Cooperating with this loop are inwardly bent portions 16 above and below the same so as to form a groove or seat to receive the hanger rod 17. This rod is formed at its inner end with an angular portion 18 which is merged into a hook 19 adapted for the suspension of articles thereon and at the point of merger a shoulder 20 is formed which by its engagement with the under face 13 of the body prevents vertical movement of the rod when in its horizontal position as shown in Figures 1 and 2. The outer end of the rod is provided with a head 21 secured thereto and adapted to rest upon the upper face 12 of the body when the rod is in vertical position as indicated by dotted lines in Figure 2.

The general operation of the invention will be apparent from the foregoing description and it will be seen that the rod when in position for use is supported against vertical or twisting movement by the groove between the loop and the point of engagement of the curved portion with the under face of the body. When it is desired to remove the rods for packing purposes the rod is swung at an angle to its normal position for use and the hook portion drawn upward through the loop from which it may be readily removed as indicated in Figure 4.

The construction therefore provides a rack bar having an angular bent end while the hook portion forms a head or abutment to engage the lower face of the supporting plate or body and this angular portion rests

in the groove formed at opposite sides of the supporting loop.

The invention provides a compact and ornamental construction in which the user has the benefit of supporting hooks as well as the rods and is adapted to be very economically manufactured and assembled. The rods are separable from the supporting plate and this plate or bracket can be readily produced by a stamping or cutting operation and formed of any desired material ornamented or finished in such manner as to provide an attractive article of manufacture.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A rack hanger comprising a supporting plate formed with a body having a loop portion at its outer face and bearing surfaces upon the upper and lower faces of said body, and a hanger rod slidingly mounted in said loop and having a head at one end to engage said upper face when in vertical position and an angular portion at its opposite end provided with a shoulder to engage the lower face of the body to resist vertical movement when the rod is in horizontal position for use.

2. A rack hanger comprising a supporting plate formed with a body having a loop portion at its outer face and bearing surfaces upon the upper and lower faces of said body, a hanger rod slidingly mounted in said loop and having a head at one end to engage said upper face when in vertical position and an angular portion at its opposite end provided with a shoulder to engage the lower face of the body to resist vertical movement when the rod is in horizontal position for use, and a hook portion upon the rod dependent from said shoulder and adapted for removable connection with the loop.

3. In a hanger rack, a supporting plate having a projected body portion provided with an open-ended loop and flat upper and lower faces at the rear of the loop, and a hanger rod slidingly mounted in said loop and formed with an angular holding portion merging into a curved loop to provide a shoulder to prevent vertical movement of the holding portion by engagement with the under face of the projected body.

4. In a hanger rack, a supporting plate having an elongated raised body provided with an attaching flange, inwardly and outwardly bent loops formed in the outer face of said body to provide an elongated seating groove, and a rack rod having an angular portion seated in said groove and a curved free end forming a supporting hoop having a shoulder to engage the under face of said body and limit the vertical movement of the rod.

5. In a hanger rack, a supporting plate provided upon its outer face with a loop, a hanger rod slidingly mounted in said loop and having an angular portion disposed within said loop and provided at one end with a head, and a curved hanger hook formed upon said rod merging into said angular portion and extending to the rear of said plate when the rod is in horizontal position.

In testimony whereof I affix my signature.

ADOLPH RANSON.