Dec. 27, 1949 B. T. KIRK 2,492,701

HANGER

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Fig. 1.

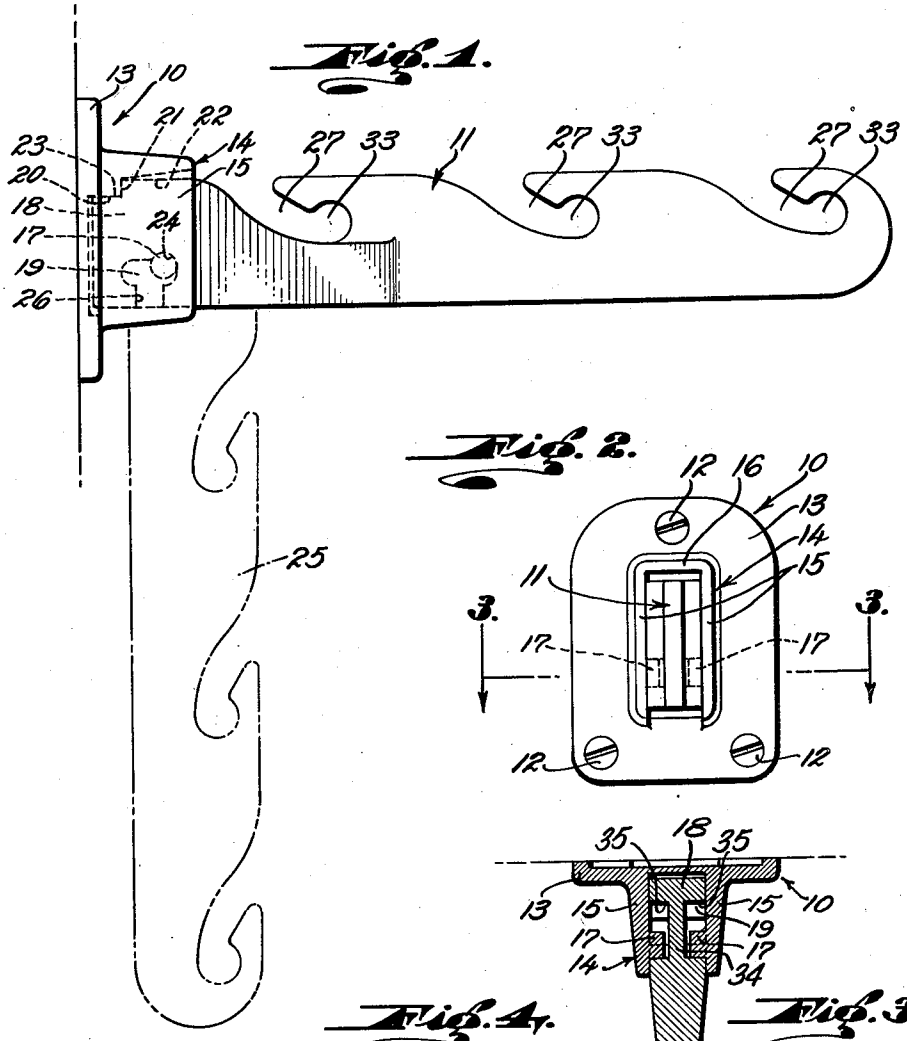


Fig. 2.

Fig. 3.

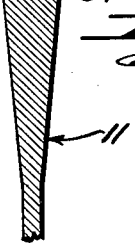


Fig. 4.

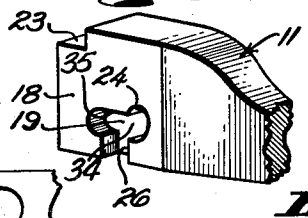
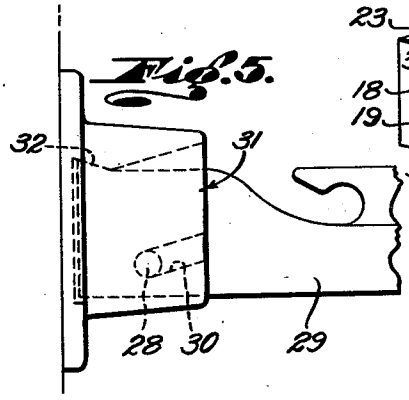


Fig. 5.



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HANGER

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4 Claims. (Cl. 211—160)

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This invention concerns an improved wall type hanger particularly adaptable for use in a constricted area, as on the back of a closet door where, at times, a projecting hanger may be needed, and at other times, it may be more desirable to pivot the arm against the door or remove it completely, to provide a maximum of free space in the closet.

The hanger comprises a bracket capable of attachment to a wall or other structure and an arm receivable therein. The arm is attached by means of a slot and pin connection which allows it to be freely pivoted between a horizontally extending and a vertically depending position, and removed completely from the depending position without taking out screws, bolts or other attaching means. In one form of the invention, the arm may be removed from either position. The slot and pin connection also allows a restricted movement of the arm into the bracket when in horizontal position, shoulder contact then serving to hold the arm rigidly against pivotal movement downward. The upper surface of the arm bears irregularities for the reception of clothes hangers in either of the two positions.

It is also contemplated that two hangers may be joined by rods extending between their respective arms, and this combination may then be used as a rack for towels or the like. Such a rack would have all the advantages of the hanger itself, being useful in either of two positions and being easily removable.

All the various features and objects of this invention will be understood from the following description of certain illustrative embodiments shown by the accompanying drawing, in which:

Fig. 1 is a side elevation of one embodiment showing the bracket and arm engaged in horizontal position, and also showing the arm in depending position;

Fig. 2 is a front elevation of the bracket and arm in horizontal position;

Fig. 3 is a fragmentary horizontal cross-section of the bracket and arm in a horizontal position taken on line 3—3 of Fig. 2;

Fig. 4 is a fragmentary perspective view of the arm; and

Fig. 5 is a fragmentary side elevation of a second embodiment of the invention.

Referring to Figs. 1 through 4, the embodiment shown therein consists of a bracket, generally indicated at 10, and an arm 11, the bracket being capable of attachment to a wall or other structure as by screws 12. Bracket 10 comprises a

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plate 13 and a web, generally indicated at 14, projecting substantially perpendicularly from the plate, the web consisting of two spaced vertical walls 15, and a horizontal top wall 16, there being a pin or lug 17 projecting inwardly from each of the vertical walls.

End 18 of arm 11 is of such width as to be received between walls 15 of the bracket web. The arm has a pair of recesses or slots 19 extending longitudinally along its opposite sides and separated by central vertical partition 34. The laterally extending walls 35 of slots 19 are disposed substantially perpendicularly to the sides of partition 34 to form shoulders entirely closing the upper sides and ends of the slots. Each laterally extending slot wall may be notched or cut away at 24 along its upper side to form a slot enlargement for a purpose to be brought out later. Pins 17 of the arm are receivable within slots 19 and engage laterally extending shoulders 35 to support the arm in both the horizontal and vertical positions and during swinging movement between these positions. This slot and pin connection allows a limited movement of the arm into and out of the recess formed by the web when the arm is in horizontal position.

Fig. 1 shows arm 11 moved into the web recess as far as possible. As will be noted, the lower side of top wall 16 of web 14 carries a shoulder 20 which extends perpendicularly to plate 13 and is terminated by vertical step 21, beyond which the upper wall is beveled slightly upward as at 22. Similarly, the upper surface of arm 11 is cut away to form corresponding shoulder 23 which conforms to shoulder 20 of the bracket. When arm 11 is in the position of Figs. 1 and 3, shoulders 23 and 20 contact to prevent downward pivotal movement of the arm, thereby holding the arm rigidly in horizontal position. Reception of pins 17 within notches 24 prevents accidental withdrawal of the arm from horizontal position. The arm may, however, be pivoted slightly upward to permit withdrawal; and, after the arm has been withdrawn to the extent permitted by slots 19, it may then be pivoted downward to dotted position 25 of Fig. 1, as shoulders 20 and 23 will no longer contact to prevent such movement.

A channel 26 extends between each slot 19 and the underside of arm 11. These channels are of greater width than the diameter of pin 17, so that, when the arm is in the depending position, it may be slightly lifted and then completely removed from the bracket, the channels 26 passing over pins 17 to permit such removal.

Notches 27, on the upper surface of arm 11, are designed to give the hanger utility in either horizontal or vertical position. The ends of notches 27 may be circular in cross section, as at 33, to receive rods extending between a pair of hanger arms and thus form a novel two position, removable towel rack.

Fig. 5 illustrates a second embodiment of the invention which employs a similar but reversed slot and pin connection. In that form, pin 28 extends through and projects from either side of arm 29, and engages slots 30 cut at a slightly downward angle in the side walls of web 31. The contacting shoulders on the arm and upper wall are beveled upward as at 32. It will thus be seen that, as in the previous form, the arm may be withdrawn from the rigid horizontal position only after slight pivotal movement upward. In this form, slot 30 is open at the outer extremity of web 31, and thus arm 29 may be removed from either the horizontal or vertical position.

I claim:

1. A hanger, comprising a bracket and an arm carried thereby, engaging pin and slot means on said bracket and arm to support said arm in a horizontally extending position and a vertically depending position and permitting swinging movement between said positions, said bracket including a vertical supporting plate and an upper wall extending outwardly therefrom, said wall being of stepped configuration to present a first essentially downwardly facing surface adjacent said plate, a second downwardly facing surface outwardly of said first surface and at a higher elevation, and an essentially vertical shoulder extending between said two surfaces, the upper surface of said arm being similarly stepped at its inner end to present an upwardly facing surface engageable with said first downwardly facing surface to maintain the arm in said horizontally extending position, and a vertical shoulder engageable with said vertical shoulder of the bracket, said arm being movable outwardly from said bracket to permit disengagement of said first downwardly facing surface of the bracket and said upwardly facing surface of the arm to thereby permit downward swinging movement of said arm.

2. A hanger of the class described comprising a bracket and a removable arm supported thereby, engaging means on said bracket and a bracket engaging end of the arm to support said arm in a horizontally extending position and a vertically depending position and permitting swinging movement between said positions, said engaging means comprising a pair of inwardly extending lugs carried by said bracket and receivable respectively in a pair of slots in opposite sides of said arm, said arm having a central vertical partition separating the slot at one side from the slot at the other side, said arm forming shoulders extending laterally from said partition and entirely closing the upper sides of said slots and the ends of said slots adjacent said bracket engaging end of the arm, said laterally extending shoulders being engageable by said lugs respectively to support the arm in each of said positions and during said swinging movement.

3. A hanger of the class described, comprising a bracket and a removable arm supported thereby, said bracket comprising a plate, a web projecting substantially perpendicularly from said plate, said web forming a recess having a top and spaced vertical side walls, a pair of lugs extending inwardly from said vertical walls respectively, the end of said arm being receivable within said recess, said arm having a pair of longitudinally extending slots at its opposite sides for receiving said lugs to allow swinging of said arm between a horizontally extending and a vertically depending position, said arm being movable toward said bracket by virtue of said slot and lug connection to engage said top wall for retention in said extending position, said arm having a pair of channels at its sides extending between said slots and the bottom of said arm to permit removal of said arm from said bracket in said depending position, and having a central vertical partition separating the slot and channel at one side from the slot and channel at the other side, said arm forming shoulders extending laterally from opposite sides of said partition and entirely closing the upper sides and both ends of said slots, said shoulders being engageable by said lugs respectively to support the arm in each of said positions and during said swinging movement.

4. A hanger of the class described, comprising a bracket and a removable arm supported thereby, said bracket including an outwardly projecting web forming a recess having a top and spaced side walls, a pair of lugs extending inwardly from said side walls respectively, said arm having a bracket-engaging end receivable within said recess and having a pair of slots extending longitudinally along its sides for receiving said lugs to mount said arm for swinging movement between a horizontally extending position and a vertically depending position, said arm having a central vertical partition separating the slot at one side from the slot at the other side, said arm being movable toward said bracket in said extending position by virtue of said slot and lug connection and having an upwardly facing surface engageable with said top wall of the web after such movement to retain the arm in said extending position, said arm forming shoulders extending laterally from said partition and entirely closing the upper sides of said slots and the ends of said slots adjacent said bracket-engaging end of the arm, said shoulders being engageable by said lugs respectively to support the arm in each of said positions and during said swinging movement.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
277,294	Kurtis	May 8, 1883
422,410	Hickok	Mar. 4, 1890
423,611	Longyear	Mar. 18, 1890
840,809	Stueben	Jan. 8, 1907
1,213,641	Hickman	Jan. 23, 1917
1,695,429	Kartzmark	Dec. 18, 1928
1,703,872	Engelson	Mar. 5, 1929
1,833,147	Atkinson	Nov. 24, 1931
2,194,951	Milani	Mar. 26, 1940

FOREIGN PATENTS

Number	Country	Date
173,706	Switzerland	Dec. 15, 1934