May 2, 1933. W. G. CHRISTIE 1,906,369

SUPPORT

Filed May 26, 1932

Fig. 2.

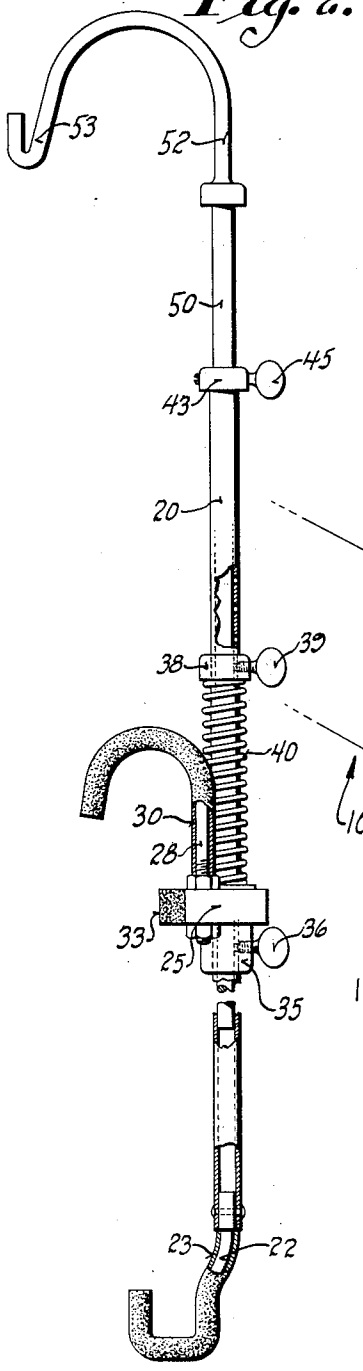
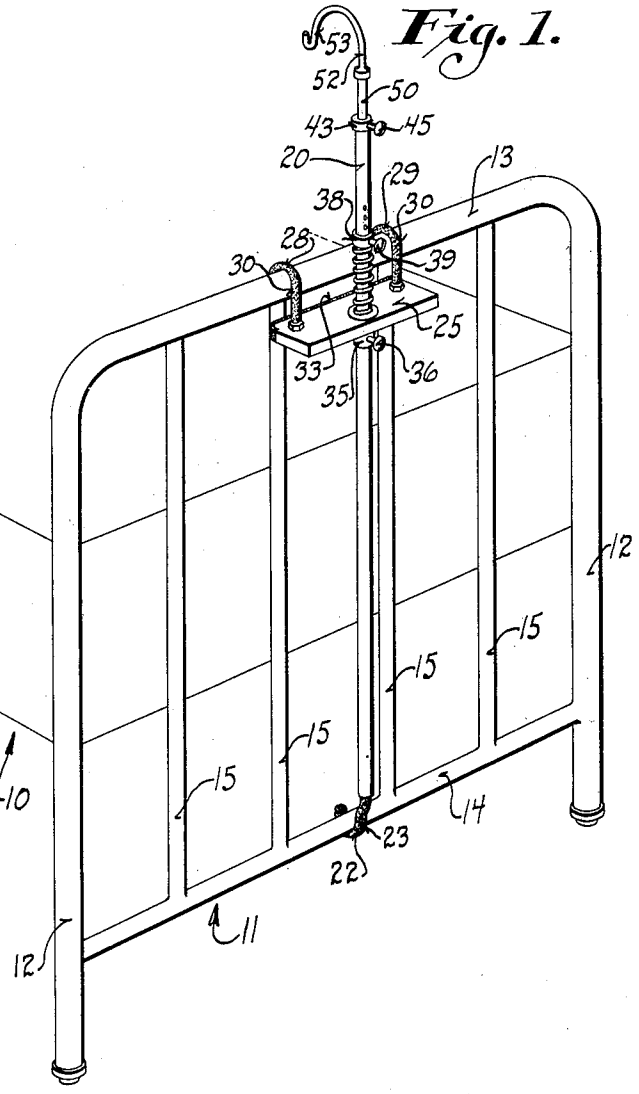


Fig. 1.



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UNITED STATES PATENT OFFICE

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SUPPORT

Application filed May 26, 1932. Serial No. 613,655.

This invention relates to supports and more particularly to a support for use in hospitals or the like adapted to maintain a liquid container above a patient.

In stands heretofore used in hospitals to maintain liquid containers such as food containers and irrigating pans above a patient lying on a cot, a movable frame has been utilized which is mounted on castors. This is obviously cumbersome and subject to being knocked over and is further difficult to store when not in use.

The present invention contemplates a stand which is readily adjustable on the end of a bed or a hospital cot, which is light and compact and which may be readily adjusted to vary the height of the container above the bed.

It is another object of the present invention to produce a support adapted to be fastened between parallel rod members to support an object thereabove.

It is a further object of the present invention to produce a support which will permit of ready adjustment in position on the frame of a bed or other frame without the necessity of complicated systems of stays; and other objects will become apparent upon consideration of the following specification.

A structure embodying the invention is illustrated in the accompanying drawing and will be hereinafter fully described, the invention residing in certain novel features which will be particularly pointed out in the appended claims.

In the drawing:

Figure 1 is a perspective view of one end of a hospital cot showing the support embodying the present invention applied thereto; and

Figure 2 is a side elevational view of the support embodying present invention, parts thereof being broken away to more clearly illustrate certain other parts.

Referring to the accompanying drawing in which like numerals indicate like parts throughout both views, the cot 10 has an end frame 11 for supporting the bed springs in the usual manner, the end frame comprising a pair of vertical posts 12—12 bent in the form of an inverted U with the closed end 13 thereof forming the upper edge of the end frame. A connecting bar 14 joins the posts 12 near the open end of the U and supplies a support for a plurality of vertical members 15 running between the members 13 and 14.

The support comprising the present invention may be mounted on the end frame 11 and consists of a tubular member 20 of length somewhat greater than the distance between the parallel members 13 and 14.

A single upturned hook member 22 is fixedly attached in the lower end of the tubular member 20 and is covered with rubber 23 to protect the end frame 11 of the bed against scratching. The hook 22 is adapted to catch under the cross piece 14 to hold the lower end of the support against movement.

A shelf 25 is slidably mounted on the sleeve 20 and extends outwardly from both sides thereof. A pair of downturned hook members 28 and 29 are provided at the opposite ends of the shelf 25 to hook over the upper member 13 of the end frame 11.

As in the case of the upturned hook 22, the hooks 28 may be rubber covered as shown at 30 to prevent marring of the enamel on the end frame. To further prevent marring, a rubber facing 33 is provided on the shelf 25 which faces the end frame 11.

A collar 35 is adjustably mounted on the sleeve 20 below the shelf 25 through a thumb screw 36, the collar 35 forming a limit for the downward movement of the shelf 25 on the sleeve 20. A second collar 38 is adjustably mounted above the sleeve 20 through a thumb screw 39 and forms a seat for a compression spring 40 which presses between the collar 38 and the shelf 25 to constantly urge the shelf into its lowermost position on the collar 35.

The provision of the spring 40 eliminates the necessity for set screws which must be set each time it is desired to adjust the frame on the bed, since it is merely necessary to hook the hook 22 under the cross piece 14, raise the shelf 25 against the action of the spring 40 and hook the downwardly turned hook over the upper cross piece 13 of the end frame, the spring 40 maintaining the frame in set

position on the end of the bed. It will also be noted that the collar 38 may be set at the proper point for any given set of conditions and the support set up or removed at will without further adjustment being necessary.

A collar 43 is fixedly attached to the upper end of the sleeve 20 and mounts a thumb screw 45, the screw 45 adjusting the position of a rod 50 within the sleeve 20. The rod 50 has a goose neck hook 52 having an upturned retaining portion 53 on the outer end thereof over which a liquid container such as an irrigating pan or a food container may be hooked, the height of the container above the bed being adjustable through the rod 50 and the thumb screw 45.

Having thus described the invention, it will be seen that there has been provided a relatively simple support of general utility, which is particularly adapted for hospital use or other positions where it is desired to support an article above a bed, chair or other like support and it is realized that the invention is susceptible to various changes and modifications coming well within the scope of one skilled in the art, and it is not, therefore, desired to limit the invention to the precise form herein shown and described, but only by the scope of the appended claims.

What is claimed as new and desired to secure by Letters Patent is:

1. A device to support an article from a frame comprising a tubular member, an upturned hook on the lower end of said tubular member, a cross piece slidably mounted on said tubular member, a pair of downturned hook members carried on the opposite ends of said cross piece, an abutment on said tubular member to limit the downward movement of said cross piece, a second abutment above said cross piece adjustably mounted on said tubular member, a spring mounted on said tubular member between said second abutment and said cross piece constantly urging said cross piece against said first named abutment, a rod slidably mounted in said tubular member, means to adjust the position of the rod within said tubular member and an article supporting hook on the upper end of said rod adapted to hold an article.

2. A device to support an article from a frame having spaced members, comprising a supporting rod of greater length than the distance between the spaced frame members, a fixed hook at one end of the rod to engage one of said frame members, a hook structure slidable on the rod at a distance from the fixed hook and engageable with the other frame member, an abutment adjustably mounted on the supporting rod outwardly of said hook structure, an expansive spring slidably engaged over the supporting rod and confined between said adjustable abutment and the hook structure to yieldably urge the hook structure toward the fixed hook, the adjustability of the abutment, spring, and hook structure enabling the adaptation of the device to frames in which the spaced members are at different distances apart, and an article supporting hook mounted from the upper end of the supporting rod to support an article in an elevated position.

3. A device to support an article from a frame having spaced members, comprising a main supporting rod of greater length than the distance between the spaced frame members, a fixed hook at one end of the main supporting rod engageable with one of said frame members, an adjustable hook assembly carried by the main supporting rod at a distance from the fixed hook to engage the other frame member, said adjustable hook assembly comprising a member slidable on the main supporting rod and having a hook to engage over the frame member, a first abutment adjustable on the main supporting rod to limit the movement of said member having the hook in one direction, a second abutment adjustable on the main supporting rod, and a spring slidable on the supporting rod and confined between said second abutment and the member having the hook to yieldably urge said member having the hook toward the fixed hook, and an article supporting hook on the end of the main supporting rod remote from the fixed hook.

4. A device to support an article from a frame having spaced members, comprising a main supporting rod, a hook at one end of the rod engageable with one of said spaced frame members, an adjustable hook assembly on the supporting rod at a distance from said hook and comprising a pair of spaced abutments on the main supporting rod, an element slidable on the main supporting rod between the spaced abutments and having a second hook engageable with the other frame member, and an expansive spring coiled about the main supporting rod and confined between one of said spaced abutments and said slidable element to yieldably urge said element and the second hook carried thereby toward the first hook, said spaced abutments being adjustable on the main supporting rod to permit adjustment of the adjustable hook assembly to accommodate different distances between the frame members, and article carrying means carried by the main supporting rod.

In testimony whereof, I hereunto affix my signature.

WALTER G. CHRISTIE.