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HINGE PIN HOOK

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FIG. 1

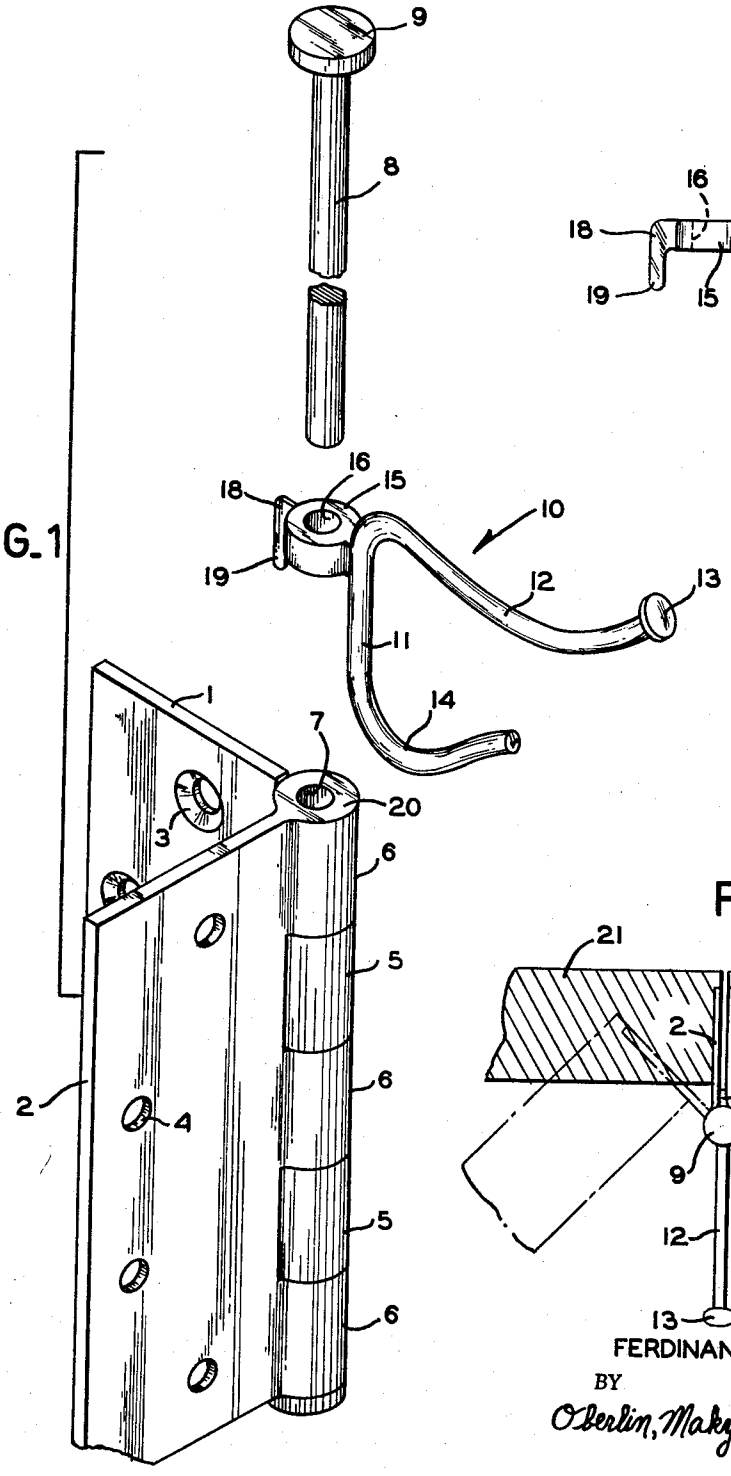


FIG. 2

FIG. 3

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HINGE PIN HOOK

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This invention relates, as indicated, to a hinge pin hook and more particularly to a supporting device for clothes and like items which is adapted readily to be attached to the hinge assembly of a door.

Efforts have been made in the past to provide clothes drying racks or other clothes and the like item supporting devices which could be attached to hinge assemblies, but such have not be adaptable to all types of hinge assemblies; on the contrary, such have been designed to fit specific types of hinge assemblies and accordingly have not met with much success. Moreover, such devices have generally been of a complex and yet flimsy nature. If not sufficiently sturdy, the clothes and like item supporting device will not perform the function intended and if the device is too heavy, it cannot be readily attached and removed from hinge assemblies.

It is accordingly a principal object of my invention to provide a simple, sturdy clothes and like item supporting device which is readily mountable on any convenient hinge assembly.

It is a further object of my invention to provide a hinge post hook of an extremely simple construction which will yet be extremely sturdy and which will adequately support any items hung therefrom.

It is yet another object of my invention to provide a hinge post hook which may quickly and easily be manufactured and yet will be of a sturdy and substantially indestructible form.

Other objects and advantages of the present invention will become apparent as the following description proceeds.

To the accomplishment of the foregoing and related ends, the invention, then, comprises the features hereinafter fully described and particularly pointed out in the claims, the following description and the annexed drawings setting forth in detail certain illustrative embodiments of the invention, these being indicative, however, of but a few of the various ways in which the principles of the invention may be employed.

In said annexed drawing:

FIG. 1 is an exploded view of a hinge assembly illustrating the manner in which my hinge post hook may be assembled therewith;

FIG. 2 is a fragmentary horizontal elevation of the vertical shank portion of my hinge pin hook illustrating the seat portion by which such hook is attached to such hinge assembly; and

FIG. 3 is a fragmentary horizontal sectional view of a hinge assembly illustrating my hook mounted thereon.

Referring now to the drawing and more particularly to FIG. 1, it will be seen that the hinge assembly comprises the conventional hinge leaves 1 and 2 which are provided with respective apertures 3 and 4 by which such leaves may be connected to the door and door frame respectively. Such leaves include cylindrical knuckle portions 5 and 6 respectively in vertical mating engagement, all of which knuckle portions include the vertically extending openings 7 which when aligned accommodate hinge pin 8 therethrough. The hinge pin is provided with a head 9 and is adapted to be inserted through the vertically extending apertures 7 in the knuckles 5 and 6 in the conventional manner. It will, of course, be understood that the illustrated hinge assembly is exemplary only and that any type hinge assembly may be employed

with my invention so long as a hinge pin having a shank portion is inserted through mating knuckle portions in the hinge leaves.

My hinge pin hook 10 comprises a vertically extending shank portion 11 which has on the top thereof an elongated hook portion 12 extending horizontally outwardly and terminating in a knob 13. The lower end of the vertically extending shank portion 11 terminates in an outwardly projecting hook portion 14 which is somewhat shorter and of a different shape than the upper hook portion 12. It will, of course, be understood that the particular configuration of the hook portions may vary widely and provision may be made along such horizontally extending portions for notches for clothes hangers or the like. The hook so far described may be made of a relatively heavy metallic wire or rod construction bent and formed into the shape shown.

Attached to the vertically extending shank portion 11, I provide a right circular cylindrical horizontally extending seat portion 15 having a central vertically extending aperture 16 therein. The seat portion 15 is of approximately the same diameter as the knuckles 5 and 6 of the hinge assembly, although it will be understood that such need not conform exactly thereto. Since the knuckles of the hinge assembly will be spaced from the end of the door and from the adjoining frame portion, the seat portion may be somewhat oversized and will not, therefore, interfere with the operation and assembly of my hinge pin hook. The aperture 16 is of a size sufficient to accommodate the shank portion of the hinge pin 8. Here again, the size of the aperture and the size of the shank need not conform exactly and it is preferable to have the aperture of a size slightly larger than the shank to facilitate the easy insertion of the shank therethrough and also to accommodate hinge assemblies of varying sizes of hinge pin shanks. The horizontal seat portion 15 may be spot welded, brazed, or otherwise suitably integrally secured to the vertically extending shank portion 11 as shown at 17 to provide a complete integral and rigid construction for the hook and seat portion attached thereto.

In order to keep the hook projecting outwardly so that it may be readily accessible to the user, I provide a depending ear or stop member 18 integrally formed with the horizontal seat portion 15, which is diametrically opposite the hook in the illustrated embodiment. This ear terminates in a downwardly projecting lug 19 adapted to extend downwardly over the top surface 20 of the hinge assembly between the leaves 1 and 2. Accordingly, the leaves will abut against the depending ear and thereby maintain the same somewhere in the angular position therebetween. Accordingly, the hook cannot inadvertently be placed flush against an adjoining wall or work its way to such flush position through continual opening and closing of the door.

In assembling the hook, it will be seen that all that is required is removal of the hinge pin 8 and the placing of my hook on the top surface 20 of the top knuckle 6 with the bottom of the seat portion 15 engaging such surface and with the aperture 16 therein aligned with the aperture 7. The hinge pin 8 is then inserted downwardly through such aligned aperture into the aperture 7 of the hinge assembly with the depending ear or lug 19 between the hinge leaves 1 and 2. Once the head 9 is seated against the top of the seat portion, it will be seen that my hook is firmly secured to the hinge assembly. My hinge pin hook will, of course, be free to pivot through the angle between the hinge leaves 1 and 2 depending upon the position of the door with respect to the frame. When the door is closed, of course, such pivotal movement will be precluded and the hinge pin hook will project directly outwardly of the door.

I have found that the hinge pin hook as that disclosed is especially adaptable for use with bathroom doors wherein close quarters are found, and it is much preferable to hooks attached directly to the backs of the doors which engage opposite walls when the door is opened damaging the same as well as the hook itself. With my hinge pin hook, no obstruction is formed to preclude the free opening and closing of the door and, of course, no obstruction is formed which will engage and damage surrounding walls.

Reference may be had to FIG. 3 illustrating the use of my hook in a bathroom wherein such close quarters exist, such door **21** being placed or hinged substantially in a corner of the room. It will, of course, be seen that the hook does not in any way obstruct the opening of the door and when the door is closed, the hook will project straight outwardly and be completely accessible to the user.

Other modes of applying the principles of the invention may be employed, change being made as regards the details described, provided the features stated in any of the following claims or the equivalent of such be employed.

I, therefore, particularly point out and distinctly claim as my invention:

1. A hinge pin hook adapted to be mounted on a hinge assembly and the like comprising a vertically extending shank portion having a top elongated hook portion terminating in a knob and a lower shorter hook portion; a cylindrical seat having a central vertically extending opening therein secured to said vertically extending shank portion, said seat and opening being of a size adapted substantially to correspond to a hinge knuckle and hinge pin respectively of said hinge assembly and the like, and a stop member secured to said cylindrical seat substantially diametrically opposite said vertical shank portion and extending downwardly adapted to fit between the leaves of said hinge assembly to engage such leaves to move and pivot the hook to keep the hook pointed outwardly regardless of the position of such leaves.

2. A hook including a vertically extending shank portion, a horizontally extending seat portion integrally formed therewith, said seat portion including means whereby said hook can be attached to a hinge assembly, and stop means formed on said seat portion to engage and be moved by the hinge leaves of such hinge assembly to control the position of said hook.

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