July 21, 1936. W. H. ROSE 2,048,519

SUSPENDING DEVICE

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Fig. 1.

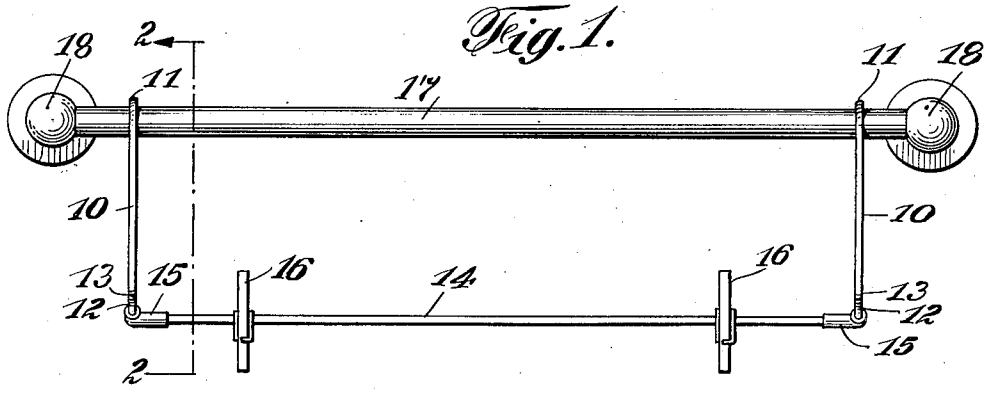


Fig. 2.

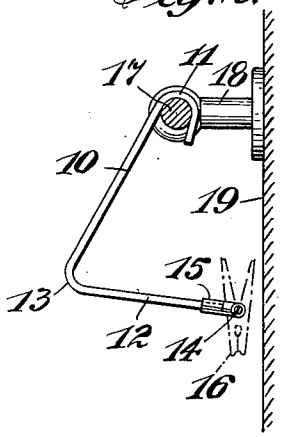


Fig. 3.

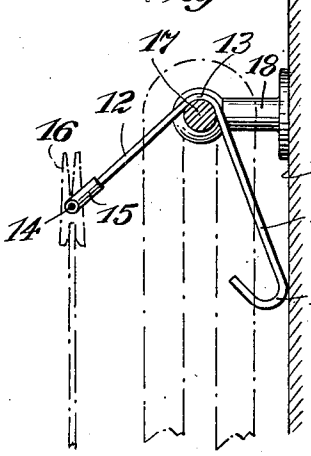


Fig. 4.

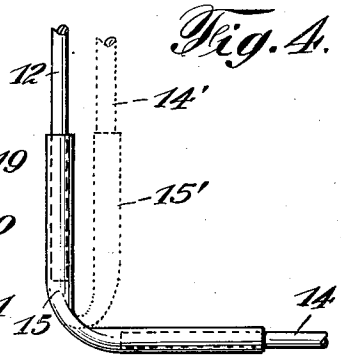


Fig. 7.

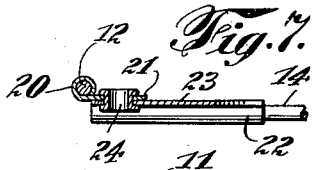


Fig. 5.

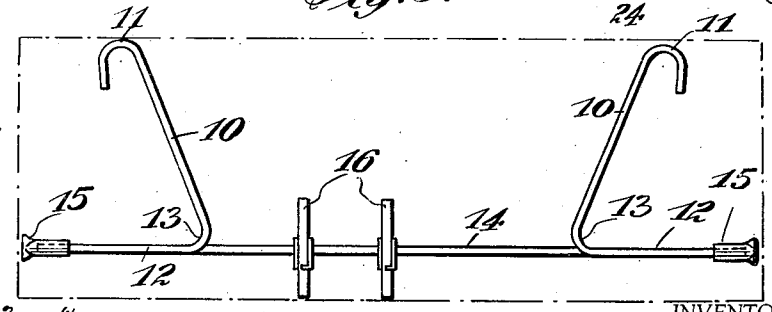
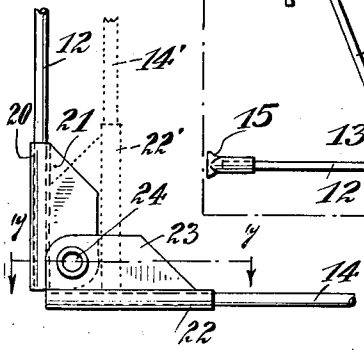


Fig. 6.



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SUSPENDING DEVICE

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Fig. 8.

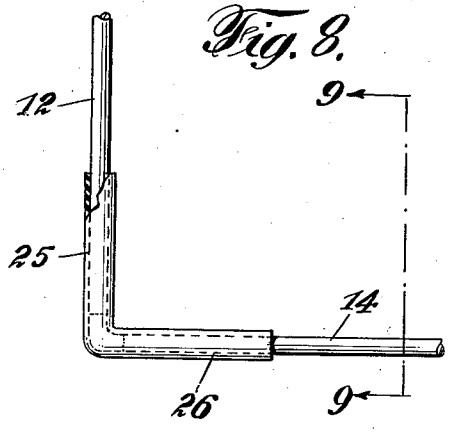


Fig. 9.

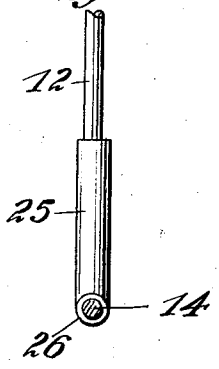


Fig. 10.

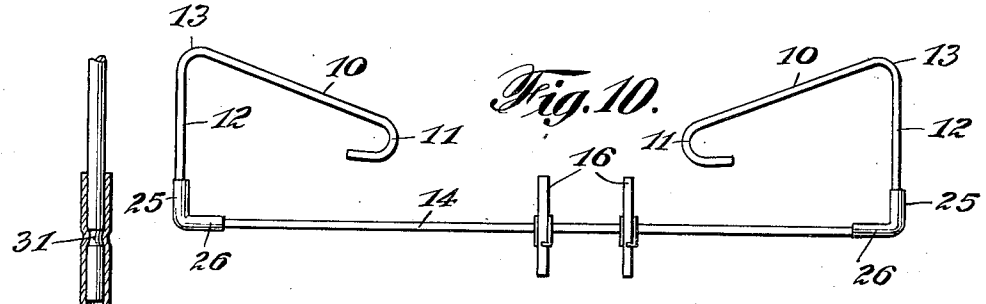
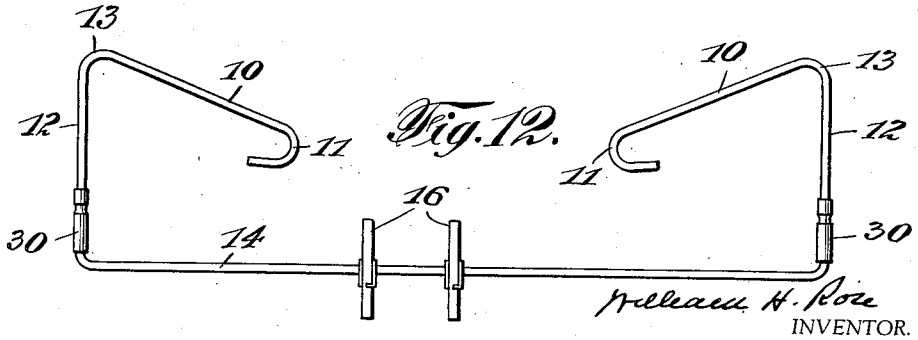


Fig. 11.

Fig. 12.



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Patented July 21, 1936 2,048,519

UNITED STATES PATENT OFFICE

2,048,519

SUSPENDING DEVICE

William H. Rose, Jersey City, N. J.

Application August 3, 1935, Serial No. 34,499

4 Claims. (Cl. 211—124)

My invention relates to suspending devices and refers particularly to folding suspending devices adapted for the suspension of articles, which are readily applied to permanent supports and which can be folded into a compact form.

It is frequently desirable to have a portable device which can be readily applied to wall towel racks and other appliances frequently found as an equipment of bath and other rooms for the suspension of moist articles to be dried and which can be folded into a small and proper condition for storing and carrying purposes.

A device of this character must be inexpensive in construction, readily applied to and removed from the permanent support without marring or injuring it and which will suspend the moist articles from the supporting device as to not injure the adjacent wall or other supporting element.

My device possesses all of the above mentioned, and other valuable features, as will be evident upon a consideration of my specification and its accompanying drawings, and hence it presents a valuable advance in the industry to which it is directed.

In the accompanying drawings illustrating modified forms of my device, similar parts are designated by similar numerals.

Figure 1 is a front view of one form of the device of my invention in operative position.

Figure 2 is a section through the line 2—2 of Figure 1.

Figure 3 is a vertical cross-section of the device of Figure 1 in inoperative position.

Figure 4 is a fragmentary view illustrating one form of my hinge element.

Figure 5 is a top plan view of the device of Figure 1 in folded position.

Figure 6 is a fragmentary side view of a modified form of my hinge element.

Figure 7 is a section through the line 7—7 of Figure 6.

Figure 8 is a fragmentary view illustrating a modified form of means for connecting the elements of my device.

Figure 9 is a section through the line 9—9 of Figure 8.

Figure 10 is a view of the device indicated in Figure 8 in folded position.

Figure 11 is a fragmentary view illustrating a modified form of means for connecting the elements of my device.

Figure 12 is a view of the device indicated in Figure 11 in folded position.

The particular form of the device of my invention shown in Figures 1 to 5 consists of two supporting members, each consisting of a wire construction having the arm 10, the upper portion of which is bent to form the hook member 11, the arm 10 being bent angularly to form the arm 12, thus producing the angle 13.

The two spaced supporting members are connected by the suspending rod 14, this connection being made by inserting the end of each arm 12 and an end of the suspending rod 14 into opposite ends of a flexible tube 15, preferably of rubber or fiber, the rods being preferably cemented therein.

The object of the tube 15 is that it acts as a hinge for the members inserted therein and allows the device to be folded with all of the elements in practically the same plane or in closely aligned planes as shown in Figure 5; thus allowing it to occupy but small space and hence it can be conveniently packed in a small bag or satchel.

Articles to be dried may be carried by the suspending rod 14, or the latter may carry a plurality of clothes clips 16, 16.

In my illustrations I show my device employed in combination with an ordinary towel rack consisting of the rod 17 attached to a wall 19 by means of supports 18, 18, but I do not limit the application of my device to this particular means of support, as it is applicable for many other purposes.

In Figures 1 and 2, I show my device in inoperative position. It will be noted that in this position, the extremity hook 11 of the arm 10 partially encompasses the rod 17 and acts as a means for allowing my device to assume the position shown in Figure 2 by gravity. It will thus be seen that the suspending rod 14, is now close to the wall 19 and hence does not extend out into the room and hence it does not interfere with the ordinary use of the towel rack.

If it is desired to remove the device, this is readily accomplished by removing the hooks 11 from the rod 17 and the device can then be folded as shown in Figure 5.

When it is desired to employ my device the arms 10, 10 are passed downwardly between the rod 17 and the wall 19 until the rod 17 is partly encompassed by and supports the angle 13 portion of the device, whereupon the end of the rod arm 10 will abut upon the wall 19 and support the device as shown in Figure 3 with the suspending arm 14 spaced from both the wall 19 and the rod 17, thus allowing the suspension of wet articles without danger of their touching and hence soiling the wall 19. It will be noticed that in this

position my device does not in any way interfere with the ordinary use of the towel rack.

In the hinge modification of my device shown in Figures 6 and 7, the arm 12 is inserted within a tubular member 20, one side of which is extended into the flat member 21, and the suspending rod 14 is inserted within a similar tubular member 22 having a similar extended flat member 23, and two members 21 and 23 being revolubly connected by the pivot 24. When this form of my device is folded the suspending rod 14 assumes the position shown by the dotted lines 14'.

In the device shown in Figures 8, 9 and 10, each end of the suspending rod 14 is attached to a supporting rod 12 by means of a tubular member 30 which is preferably moulded into the form shown. I prefer that the tubular member be made of rubber. The suspending rod 14 is inserted into the tubular element 30 and may be cemented therein if desired. The supporting rod 12 is inserted within the tubular element 30 and retained therein, by frictional, or other means, while allowing of its revolution. This tubular member acts as a connecting means and not as a hinge and when it is desired to fold the device, the supporting rods 12, 12 are simply revolved 90° in the tubular member 30, whereupon the device assumes the position shown in Figure 10, with all of the elements in the same plane.

In the modified form of my device shown in Figures 11 and 12, each end of the suspending rod 14 has the bent portion 29 and this end portion 29 is inserted within the tubular connecting member 30, and cemented therein if desired. The end of each supporting member 12 is inserted within the other end of the connecting member and frictionally, or by other means, retained therein to prevent accidental displacement, but allowing of its revolution. In the illustrations I show one means of accomplishing this which consists in an annular recess 31 in the rod 12, into which the connecting member 30 will enter, if the connecting member 30 is sufficiently resilient, or it may be pressed therein. In folding this device the supporting members 12, 12 are revolved 90° thus causing the device to assume the position shown in Figure 12 with all of the elements in the same plane.

It is evident that the hook ends 11, 11 of the supporting rods 12, 12 can be omitted, in which event the device will operate as described when it is in position for use as shown in Figure 3, but can not be suspended from the rod 17 when not in use.

By "rods" in my specification and claims I mean rod shaped elements, whether they be round, square, or curved or angular shape in cross-section.

It will thus be seen that my invention prevents a foldable device adapted for the suspension of articles spaced from wall, or support to which my device is applied, inexpensive in construction, easily applied to and removed from a supporting device and which can be folded into a small and convenient space for storage and carriage.

I do not limit myself to the particular size, shape, number, arrangement or material of parts as particularly shown and described, as these are given simply as a means for clearly describing the device of my invention.

What I claim is:

1. In a suspending device in combination, a plurality of supporting members, each of which supporting members consists of two arms positioned angularly with respect to each other; a hook-like member carried by the free end of one of said arms, said hook-like member being in the same plane as said arms and bent inwardly within the angle formed by said arms; and a suspending member carried by and connecting the other free ends of the supporting members.

2. In a suspending device in combination, a plurality of supporting members, each of which supporting members consists of two arms positioned angularly with respect to each other; a hook-like member carried by the free end of one of said arms, said hook-like member being in the same plane as said arms and bent inwardly within the angle formed by said arms; and a suspending member carried by and hingedly connecting the other free ends of the supporting members.

3. In a suspending device, in combination, a plurality of supporting members, each consisting of a rod bent to form two arms angularly positioned with respect to each other, the end portion of one arm bent to form a hook-like member within the same plane as said arms and extending inwardly within the angle formed by said arms; and a suspending member carried by and connecting the other ends of the supporting members.

4. In a suspending device, in combination, a plurality of supporting members, each consisting of a rod bent to form two arms angularly positioned with respect to each other, the end portion of one arm bent to form a hook-like member within the same plane as said arms and extending inwardly within the angle formed by said arms; and a suspending member carried by and hingedly connecting the other ends of the supporting members.

WILLIAM H. ROSE.