June 6, 1933. S. S. MOUNGELIS 1,912,950

DETACHABLE HOOK

Filed Sept. 22, 1932

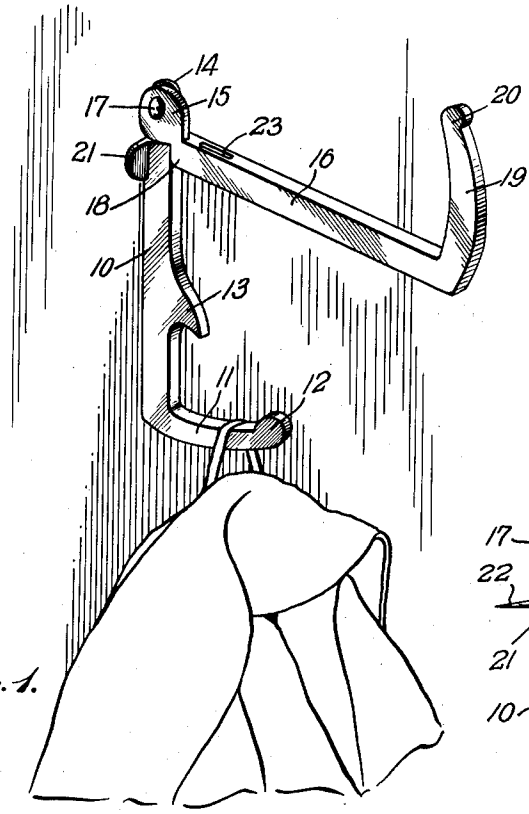


Fig. 1.

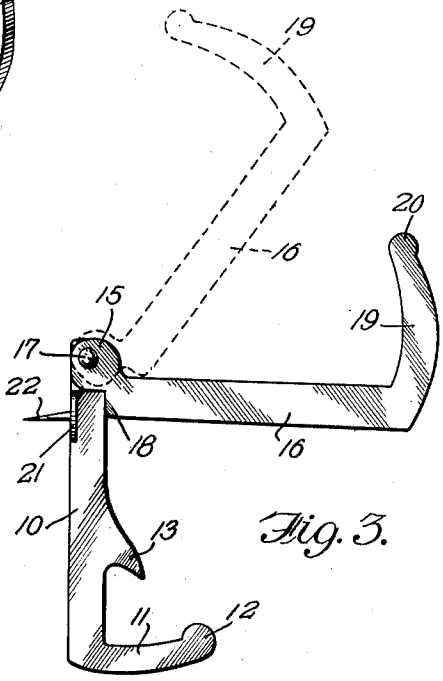


Fig. 3.

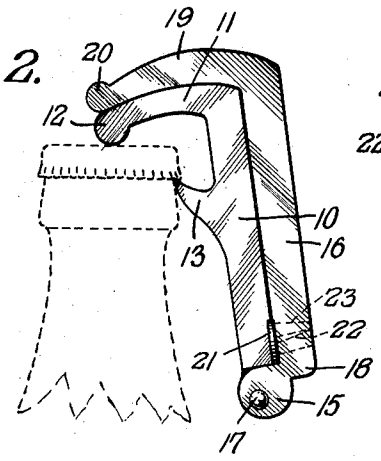


Fig. 2.

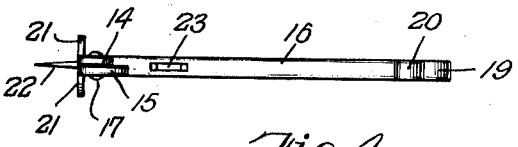


Fig. 4.

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UNITED STATES PATENT OFFICE

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DETACHABLE HOOK

Application filed September 22, 1932. Serial No. 634,390.

This invention relates to combination devices, and more particularly to a hook adapted for the support of various articles in combination with a bottle opener.

It has been recognized in the past that a device which could be quickly attached to various articles to constitute a supporting hook for hats and coats and the like would be highly desirable if it were so constructed as to be carried in the pocket and thereby kept in a clean condition. Such a device would be particularly advantageous to persons on outings, such as picnics, when clean hooks for the hanging of garments are usually not available.

It has been further recognized that a device for supporting garments is particularly useful when combined with a means for opening bottles, and attempts to produce satisfactory devices of this nature have been made. However, so far as I am aware, the devices heretofore constructed have been objectionable either because they were not capable of ready attachment to supporting surfaces or because they were not capable of being folded into a convenient and compact form.

It is an object of the present invention to overcome the problems heretofore encountered in combination devices of the character referred to, and the invention contemplates the formation of a quickly attachable hook which is capable of supporting a comparatively heavy weight when attached to a supporting surface.

The invention further contemplates the formation of a foldable hook which presents no sharp projections when in the folded condition and yet a device of this character which can be readily unfolded to operative position in which form a penetrating member extends therefrom and is adapted to be inserted into a supporting element in a manner resulting in the projection of hooks for different garments and the like.

It is an additional object of the present invention to provide a device as above specified which is capable of being utilized for the removal of caps from bottles.

Other objects and advantages will be apparent when considered in connection with the accompanying drawing wherein:

Fig. 1 is a perspective view of a device made in accordance with the present invention illustrating it in position upon a wall for use as a supporting hook;

Fig. 2 illustrates the device of Fig. 1 when folded and in the form for removing a cap from a bottle;

Fig. 3 is a side view of the device applied to a wall with dotted lines indicating the manner of folding; and

Fig. 4 is a top plan view of the device as shown in Fig. 3.

Now referring to the drawing in detail the numeral 10 illustrates an arm provided at its extreme end with a curved projection 11 terminating in an enlarged portion 12. A sharp projection 13 is provided for cooperation with the projection 11 in the removal of caps from bottles as illustrated in Fig. 2.

At the opposite end arm 10 is reduced in width as at 14 so as to accommodate another reduced portion 15 of an arm 16. The arms 10 and 16 are pivoted at the reduced portions as indicated at 17, and the arm 18 is offset from the reduced portion 15 in a manner to cause the end 18 thereof to abut against the arm 10 when the respective arms are pivoted to the position illustrated in Fig. 1. Arm 16 is curved upwardly at its free end into a projection 19 which is similar to projection 11 provided with an enlarged portion 20 at its extremity.

Arms 10 and 16 are proportioned with respect to the pivot 17 in such a manner as to permit the arm 16 to closely lie behind arm 10 when the device is in folded position as is shown in Fig. 2 and the projections 11 and 19 each have their contacting arcuate edges curved on a radius which permits the free movement of the arms and projections into and out of the folded position although they lie in close contact when folded.

Arranged on the arm 10 at the rear thereof and closely adjacent to the reduced portion 14 are wings 21 which constitute a head for a penetrating element 22. It is, of course, to be understood that the penetrating element may be of any desired length depending upon

the use to which the device is to be put, but I have found that when the penetrating element 22 is angularly disposed from the arm 10, as illustrated in Fig. 3 and the device is proportioned as shown, a weight of approximately twenty-five pounds can be safely supported from the projection 11 when the device is mounted upon a wooden support of normal hardness.

The arm 16 adjacent the reduced portion 15 is provided with a slot 23 which acts to receive the penetrating element 22 when the arms are moved to the folded position and therefore when folded the element is shielded and the device is entirely free of sharp projections.

In using the device it will be seen that the bottle cap remover may be employed when the arms are in the folded position. As the device does not present any sharp projections it may be readily carried in the pocket. When it is desired to use the device as a hook for supporting garments and the like it is only necessary that the arms be moved to the position illustrated in Fig. 1, and that the penetrating element be forced into a supporting surface whereupon heavier garments may be readily suspended from the projection 11 and a lighter garment such as a hat may suspend from the arm 16 and its projection 19.

Inasmuch as changes may be made in the construction above set forth without departing from the spirit of the invention it is intended that the description and accompanying drawing shall be interpreted as illustrative only and not in a limiting sense. It is to be understood that while it is preferred that a penetrating attaching element be utilized other connecting devices may be employed in place thereof when the structure to which the device is to be applied is not capable of being readily penetrated.

What I claim is:

A supporting hook adapted to function as a bottle opener comprising a pair of arms pivoted to fold in edge to edge relation, one arm having a sharpened projection extending from the edge thereof adjacent one end adapted to act as an attaching element for securing the arm to a surface, said arm being formed at its opposite end with a hook for supporting articles when the arm is in an attached position, a sharp projection on the arm above the hook for cooperating with the hook to constitute a bottle cap remover, the other arm provided with an offset to form a stop shoulder and being provided also with a hook at its free end extending outwardly from one edge thereof, said other arm being further provided with a slot opening away from the surface of the edge from which the hook extends which slot is adapted to entirely contain the attaching element of the first arm when the arms are pivoted to a folded position, and being of a length to cause the hook thereof to overlie the hook of the first mentioned arm when the arms are folded with the hooks in close contact and the hooks being of a length so that the sharp projection lies within a line between the pivot point of the arms and the outer ends of the hooks.

In testimony whereof, I affix my signature.

STEFANOS STAVROU MOUNGELIS.