Feb. 7, 1950

T. R. BATTLE
PROTECTING DEVICE AGAINST RAIN,
SUN, FLIES, AND THE LIKE
Filed Jan. 16, 1947

2,496,769

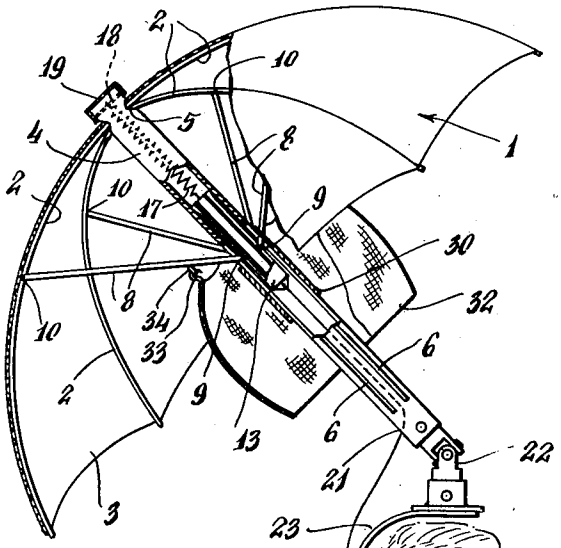


Fig. 1.

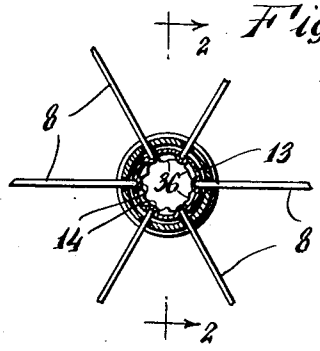


Fig. 3.

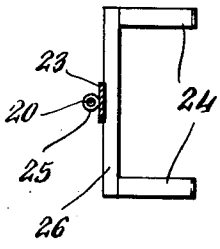
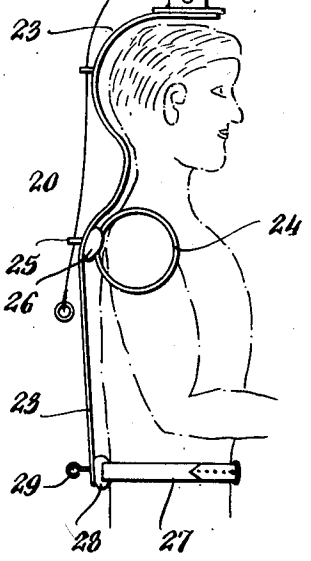


Fig. 4.



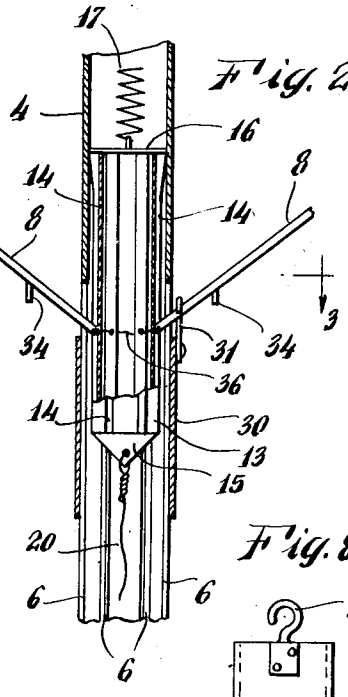


Fig. 2.

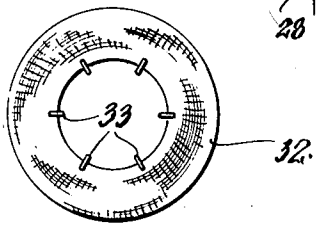


Fig. 5.



Fig. 9.

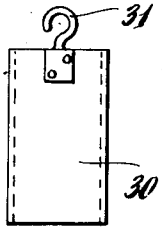


Fig. 8.

Fig. 6.

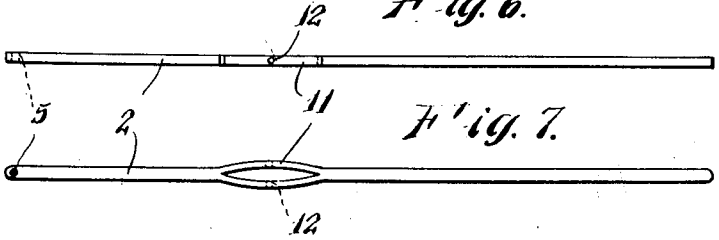


Fig. 7.

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PROTECTING DEVICE AGAINST RAIN, SUN, FLIES, AND THE LIKE

Turner R. Battle, Philadelphia, Pa.

Application January 16, 1947, Serial No. 722,363

1 Claim. (Cl. 135—22)

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This invention relates to devices for protecting a person against rain, sunshine, flies and the like, and it relates more specifically, to devices of this type which are adapted to be secured on the body of a person for adjustably supporting an umbrella in different positions and maintaining it in position without the use of the hands.

The invention has for its object to provide an improved device of this character, which can easily be applied to the body of a person, and by means of which an umbrella can be securely and firmly clamped in position on its support, and effectively adjusted to any desired position and carried without using the hands.

Another object of the present invention is the provision of a device of the character described which affords novel and highly convenient means for opening and closing the umbrella portion of the device.

Still another object of the present invention is the provision of a device of the character described which is light in weight and comparatively simple in construction and inexpensive, but which is durable, sturdy, and well adapted to withstand the rough usage to which devices of this type are ordinarily subjected.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claim, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

In the accompanying drawings the preferred forms of the invention have been shown.

In said drawings:

Figure 1 is a side elevation fractionally in longitudinal section showing the entire device as it appears when it is used as an umbrella or a parasol;

Figure 2 is a fractional sectional view on the line 2—2 of Figure 3;

Figure 3 is a fractional sectional view on the line 3—3 of Figure 2;

Fig. 4 is a fractional bottom view of a detail for holding the device on the wearer's shoulders;

Fig. 5 is a top view of a detachable mosquito net;

Fig. 6 is a detailed side view of an umbrella stretcher;

Fig. 7 is a top view of the stretcher of Fig. 6;

Fig. 8 is a detailed side view of a sleeve member; and

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Fig. 9 is a detailed side view of a replaceable handle.

Similar reference characters refer to similar parts throughout the several views.

In the drawing the number 1 denotes an umbrella having ribs 2 which carry a foldable cover 3. The ribs 2 are hinged to the upper portion of a hollow staff 4 at 5, and a plurality of longitudinal slots 6 are provided in the staff 4. A stretcher 8 is pivoted to the diverging portion 11 of each rib 2 by means of a pin 10 which is extended through the bores 12 of said diverging portion 11 as well as through one extremity of the stretcher 8. Each stretcher 8 extends through one of the slots 6 into the staff 4 and is pivoted at 9 to a runner 13, which is slidable within the staff 4 and provided with longitudinal exterior grooves 14 and a pointed lower extremity 15. One end of a spring 17 is secured to the upper extremity of the runner 13, and other end of the spring 17 is suspended from a cross-pin 18 which is extended through the upper extremity 19 of the staff 4, so that the spring 17 tends to pull the runner 13 upwards thus opening the umbrella 1.

A string 20 is suspended from the lower extremity 15 of the runner 13 and is passed through the lower portion of the staff 4 and through a lateral opening in the same. The lower extremity 21 of the staff 4 is provided with a ball socket joint 22, or with any other pivotal connection means, which is attached to the horizontal upper end portion of a bar 23 that is curved so as to correspond to the vertical curvature of the upper back portion of a human body, as may be seen in Figure 1. A horizontal pad 26 is attached to the middle portion of the bar 23, and a pair of arm loops 24 are fastened to the extremities of the pad 26. Opposite to the pad 26 there is secured a lug 25 through which the string 20 is passed. Another pad 28 is secured to one side of the lower extremity of the bar 23, and a waist belt 27 is fastened to the pad 28. Thus by means of the parts 24, 26, 27 and 28, the bar 23 can be secured to the body of a person in such a manner that the former is in spaced relation to the latter. A hook 29 is secured to the outer side of the lower extremity of the bar 23 for the purpose of engaging a ring at the lower extremity of the string 20, so that the umbrella 1 will be held in the closed or semi-open position (not shown). Upon disengaging the string 20 from the hook 29, the spring 17 will pull the runner 13 upwardly, so that the umbrella will be opened entirely.

A sleeve member 30 is slidable at the outer

side of the staff 4 and is provided with at least one hook 31, which engages the stretcher 8, so that the umbrella 1 also can be opened or closed by shifting said member 30 up or down.

A tubular mosquito net 32 is preferably suspended from the stretchers 8 by means of hooks 33 which engage loops 34 that are secured to the stretchers 8. In the drawing the net 32 is shown as being not in use. It can be detached from the hooks 33 and slid down on the staff 4 over the ball socket joint 22 until its open top rests upon the base of the ball socket joint 22 and its side portions encompass the head of the person using the device. The stretchers 8 are pivotally secured to the longitudinally grooved runner 14 preferably by means of a circularly bent wire 36, which is extended through the extremities of the stretchers 8 as well as through the runner 14.

The arrangements shown in Figure 1 allows an attachment of the umbrella 1 to the body of a person, so that said person's hands are free since he does not have to hold the umbrella. However, if it is desired to use the umbrella 1 without the parts 23 to 28, the pivotal means 22 can be removed from the staff 4 and can be replaced by a handle 35.

Since certain changes may be made in the above article and different embodiments of the invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawing shall be interpreted as illustrative and not in a limiting sense.

It is also to be understood that the following claims are intended to cover all of the generic and specific features of the invention herein described, and all statements of the scope of the invention which as a matter of language might be said to fall therebetween.

Having thus fully described my said invention, what I claim as new and desire to secure by Letters Patent is:

In a device for protection against rain, sun, flies and the like which comprises a hollow umbrella staff provided with longitudinal slots, the combination of a runner slidable within said staff and pivotally connected to umbrella ribs which carry a foldable cover by means of stretchers that are extended through said longitudinal slots, resilient means connecting the upper portion of said runner to the top of said staff and adapted to pull the runner towards said top, and a string extended from the lower portion of said runner through the lower portion of said staff.

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

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