

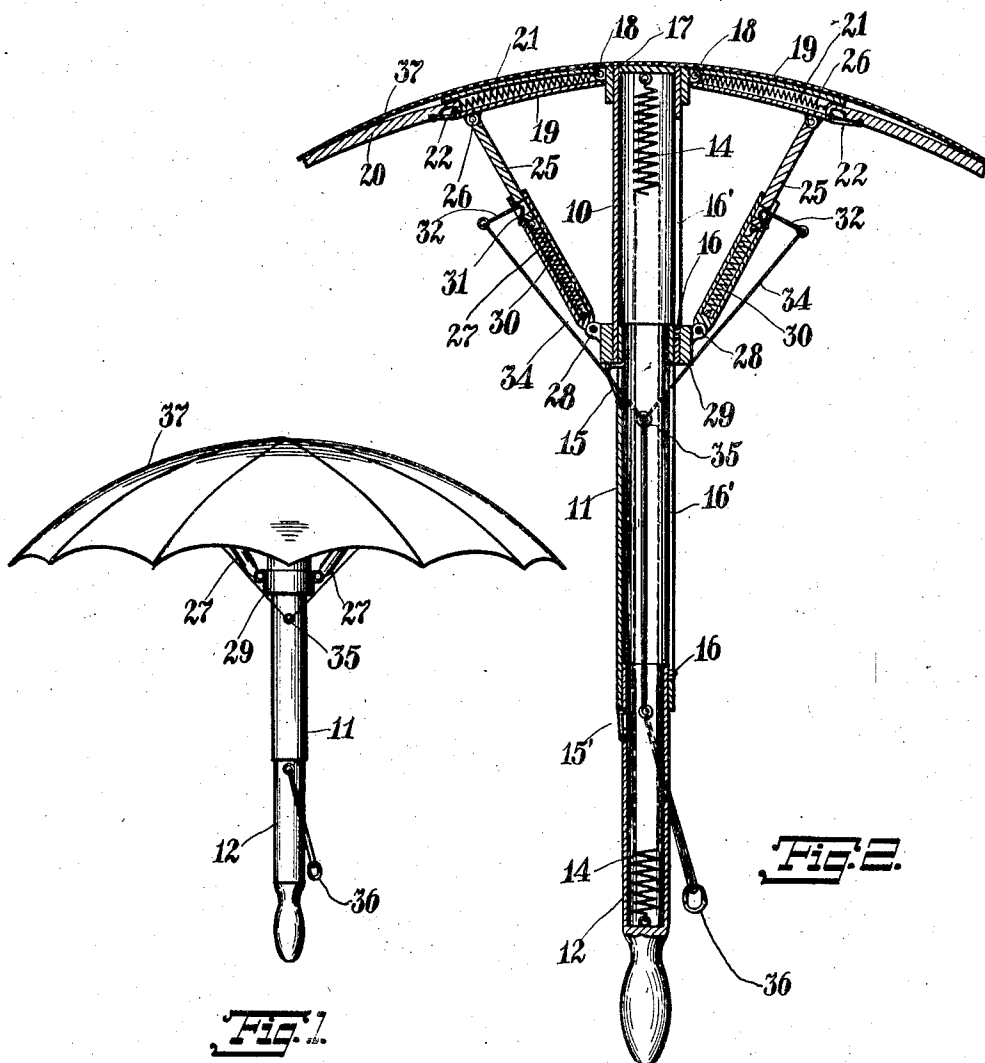
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COLLAPSIBLE UMBRELLA

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UNITED STATES PATENT OFFICE.

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COLLAPSIBLE UMBRELLA.

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This invention relates generally to collapsible umbrellas, the invention having more particular reference to a novel type of collapsible umbrella which may be collapsed, or folded into a small package suitable for carrying in a hand bag, or the like.

The invention has for an object the provision of an improved collapsible umbrella of novel construction and arrangement of parts.

A further object of the invention is the provision of an improved collapsible umbrella having depending cords, so as to facilitate the closing of the said umbrella.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention, are more particularly set forth.

Fig. 1, of the drawing, is a side elevational view of my improved collapsible umbrella.

Fig. 2, is a central vertical sectional view thereof.

As here embodied my improved collapsible umbrella, comprises a telescopic handle made up of three tubular elements numbered respectively 10, 11, and 12, the upper ones of these elements engaging outside the lower ones. Extending through the hollow handle thus formed is a tension spring 14, which is attached at one end to the top element 10 and at its other end to the bottom element 12. Carried by the intermediate and bottom handle elements are catches 15, and 15' of the type usually employed, which serve to hold the handle extended against the pull of the spring 14. To prevent relative rotary movement of the handle elements on one another, pins 16, are provided in the handle elements 11 and 12, and engage in longitudinal slots 16' in the handle elements 10 and 11.

Fixed to the top end of the handle element 10, is a collar 17 which is provided with a number of radially projecting pairs of ears 18 to which are hinged the inner ends of rib elements 19 which are in the form of tubes curved to a suitable radius and forming the inner parts of telescopic ribs whose outer parts are formed by similarly curved rods 20 which engage in the rib elements 19. The rods 20 are urged inward into the rib elements 19 by means of tension springs 21 in the rib elements 19,

which connect at opposite ends to the rib elements 19 and the rods 20. Catches 22 similar to the catches 15 are provided on the rods 20, to hold the latter extended.

The stretchers for the ribs are likewise of telescopic construction and comprise the rods 25 hinged as at 26 to the other ends of the rib elements 19 and engaging in tubular members 27 hinged to ears 28, formed on a runner 29 which freely surrounds the handle. The rods 25 are urged into the tubular members 27, by means of tension springs 30 in the latter attached to the rods 25 at one end and to the tubes 27 at their other ends.

Carried by the tubular members 27 are catches 31 provided with an extended element 32 with an eye 33, to which are attached cords 34, depending therefrom, and passed through an eyelet 35 conveniently attached to the handle element 11, so as not to interfere with the above mentioned telescopic action thereof, the cords 34 are attached together or tied, at their lower extremities, as at 36. It being understood that the catch 15 will hold the runner 29 in the desired position, so as to extend the rib elements 19, as clearly shown in Fig. 2, of the accompanying drawing. Over the ribs are stretched an elastic rubber fabric 37.

The umbrella may be closed in the ordinary manner, and again opened without a general collapse of the frame, by pulling the cords 34, preferably at the point designated by the numeral 36. When the umbrella is to be folded or collapsed for insertion, as a hand bag or the like, the catches 22 are released and the springs 21 draw the rib elements 20 into the tubular elements 19. The catches 31 are released by a pull of the cords 34, preferably near the point designated by the reference number 36, and the telescopic ribs folded inward toward the handle. The catches 15 and 15' are finally released and the handle telescoped, in which position the stretchers 25, and 27 extend downward from the runner 29 which slides along the handle element 11, the umbrella being thus folded into a compact package. To set up the umbrella, the above named operations are in substance reversed.

While I have above illustrated and described a preferred embodiment of my invention, it will be understood that I do not limit the invention to the precise construction herein disclosed and that various changes

and modifications might be made therein, without departing from the spirit and scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new and desire to protect by Letters Patent of the United States, is as follows:—

1. In a collapsible umbrella of the class described, stretchers of telescopic construction comprising rods hinged to the outer ends of rib elements, and engaging in tubular members hinged to ears formed on a runner freely surrounding a handle, said rods urged into the said tubular members by tension springs attached to the said rods and to the said tubular members, catches provided with an extended element with eyes, carried by the said tubular members, cords attached to the said eyes, depending therefrom and passed through an eyelet attached to a handle element, said cords tied together at their lower extremities.

2. In a collapsible umbrella of the class described, stretchers of telescopic construction comprising rods hinged to the outer ends of rib elements, and engaging in tubular members, hinged to ears formed on a runner freely surrounding a handle, said rods urged into the said tubular members by tension springs in the said tubular members, said tension springs attached to the said rods and to the said tubular members, catches provided with an extended element with eyes, carried by the said tubular members, cords attached to the said eyes, depending therefrom and passed through an eyelet attached to a handle element, said cords tied together at their lower extremities, said catches adapted to hold the said rods in an extended position, said cords adapted to disengage the said catches.

In testimony whereof I have affixed my signature.

GEORGE ORSIK.