

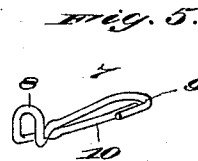
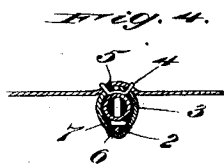
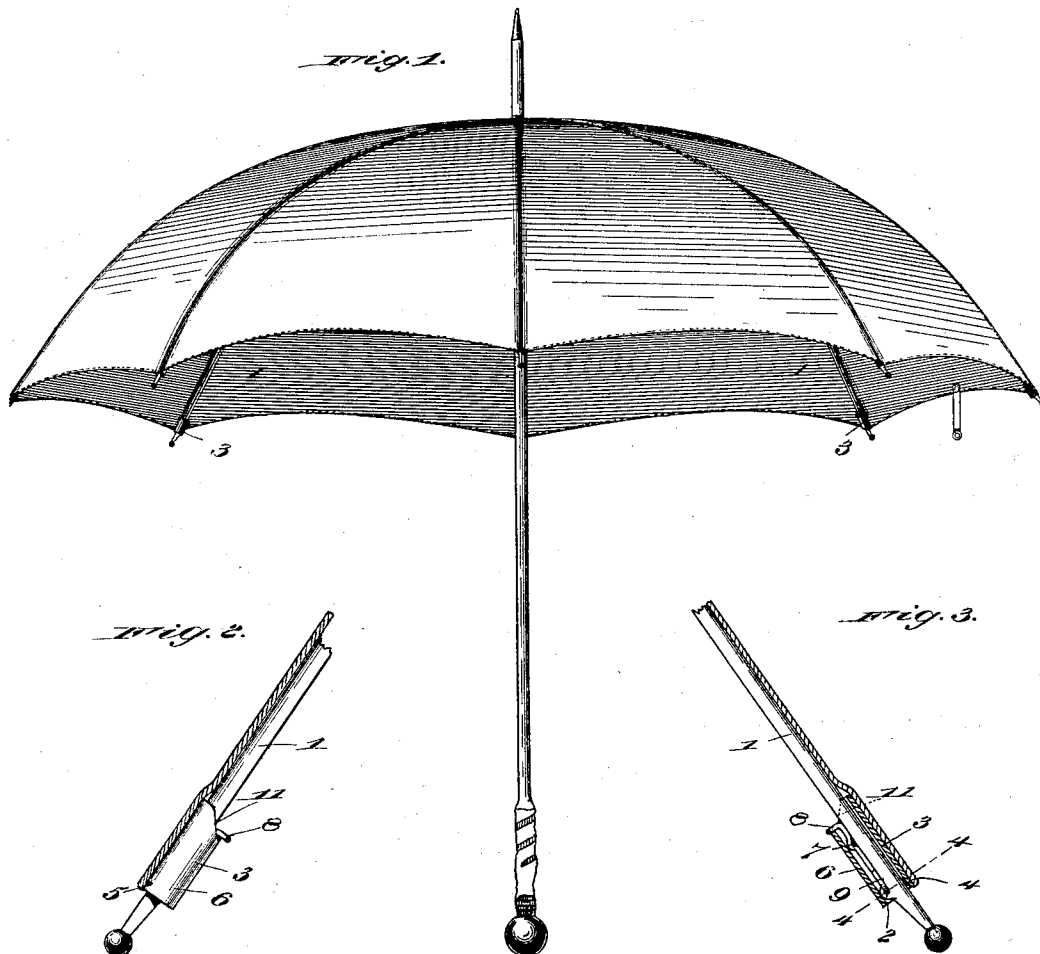
No. 630,415.

Patented Aug. 8, 1899.

C. A. SHALER.
DETACHABLE UMBRELLA COVER.

(Application filed June 13, 1898.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

CLARENCE A. SHALER, OF WAUPUN, WISCONSIN.

DETACHABLE UMBRELLA-COVER.

SPECIFICATION forming part of Letters Patent No. 630,415, dated August 8, 1899.

Application filed June 13, 1898. Serial No. 683,333. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE A. SHALER, a citizen of the United States, residing at Waupun, in the county of Fond du Lac and State of Wisconsin, have invented a new and useful Detachable Umbrella-Cover, of which the following is a specification.

My invention relates to detachable umbrella-covers, and particularly to a clasp for securing the cover to the ribs of an umbrella-frame; and the object in view is to provide a simple, inexpensive, and efficient clasp adapted for arrangement wholly within the peripheral contour of the umbrella-cover and of such a construction as to expose the terminals of the ribs, whereby the appearance presented is the same as that when the cover is attached in accordance with the ordinary practice.

Further objects of the invention are to provide such a construction of clasp as to prevent the turning thereof upon the rib, adapted to be applied to a rib of the ordinary construction having the usual thread-eye, and also to provide means for limiting the inward movement of the clasp upon the rib without modifying the construction of the ordinary umbrella-frame, whereby the cover-securing devices embodying my invention may be applied to an umbrella cover and frame without the exercise of any particular skill upon the part of the workman, or, in other words, whereby the device embodying my invention may be applied to an umbrella by the user without the aid of skilled labor.

Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a view of an umbrella having cover-attaching devices constructed in accordance with my invention. Fig. 2 is a detail side view of an improved cover-attaching device applied in the operative position to a rib, the cover being shown in section. Fig. 3 is a longitudinal section of the same. Fig. 4 is a transverse section on the line 4 4 of Fig. 3. Fig. 5 is a detail view of the stop-link operatively engaged with the thread-eye of the rib.

Similar numerals of reference indicate cor-

responding parts in all the figures of the drawings.

1 designates an ordinary rib of an umbrella-frame provided with the usual thread-eye 2, and 3 represents a sleeve open at both ends and forming one member of the clasp embodying my invention, said sleeve being adapted to be fitted longitudinally upon the rib and moved inwardly thereon a sufficient distance to expose the extremity of the rib beyond the end thereof, whereby the appearance of that portion of the rib which projects beyond the umbrella-cover 3 is the same as in the ordinary practice. The umbrella-cover is attached to the sleeve member of the improved clasp by means of threads 4, engaging thread openings or perforations 5, formed in the sleeve contiguous to its outer end, the said sleeve being arranged wholly within the peripheral contour of the umbrella-cover, as clearly shown in the drawings, in order to conceal the sleeve.

In order to prevent the sleeve from turning upon the rib, it is provided at its inner side with a longitudinal upstruck groove 6, which receives the thread-eye 2 as the sleeve is fitted to place, and in order to prevent inward displacement of the sleeve upon the rib in case of looseness I employ a stop-link 7, provided at its inner end with an integral inwardly-turned stop-loop 8 and constructed at its outer end to form a snap-hook 9 for engagement with the thread-eye 2. This stop-link is preferably constructed of a single blank of wire doubled upon itself at an intermediate point and having its sides bent at right angles to the loop to form the said stop 8, while the arms or sides of the loop are extended, the one to form a hook for engagement with the eye 2 and the other to form a spring-tongue 10, by which the hook is normally closed, but which is so located as to facilitate the engagement of the hook with the eye 2 when the attachment is applied to an umbrella-frame.

The length of the stop-link is such that when its hook end is engaged with the thread-eye its stop end is arranged approximately at an interval from the eye which is slightly less than the length of the sleeve, and the inner end of the sleeve is cut away or notched,

as shown at 11, to receive the stop. Hence when the sleeve is fitted upon the rib it moves inwardly until the stop 8 is seated in said notch at the inner end of the sleeve, and there-
 5 by the sleeve is held with its outer end just covering the thread-eye 2. The appearance of an umbrella-frame to which the cover is attached by the means hereinbefore described is substantially similar to that of an umbrella
 10 wherein the cover is stitched to the thread-eyes in the ordinary way, and it will be obvious that by means of the device embodying my invention an umbrella-cover may be at-
 15 tached to a frame without the exercise of skill upon the part of the workman for the reason that the snap-hooks of the stop-links may be readily engaged with the thread-eyes 2, and after stitching the cover at the proper inter-
 20 vals to the sleeves the latter may be slipped endwise upon the ribs until the inward move-
 ment is checked by the stops at the inner ends of said links.

A further advantage of the construction described resides in the fact that the attach-
 25 ment of the cover to the sleeves is at the extreme edge of the former and in alinement with the seams between the gores, and hence when the umbrella is raised the cover is strained parallel with its peripheral edge and
 30 also upon the lines of the gore-seams, as in the ordinary practice.

A further important feature of the construction embodying my invention resides in the fact that the sleeve is split longitudinally
 35 and is constructed of elastic or spring metal whereby it is normally held with the edges of its split or open side in contact; but in ap-
 40 plying the sleeves to the umbrella-ribs the sleeves are adapted to yield transversely, or, in other words, to expand, to receive ribs of
 45 different diameters or thicknesses without straining the parts or detracting from the facility with which the operation may be per-
 formed.

45 Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

50 Having described my invention, what I claim is—

1. A clasp for securing an umbrella-cover

to a frame-rib, the same comprising an open-
 ended sleeve, to slidably receive the umbrella
 frame-rib and the thread-eye thereof, and a
 55 disconnected stop, engaged with the thread-
 eye, to limit the inward movement of the
 sleeve upon the rib, substantially as specified.

2. A clasp for securing an umbrella-cover
 to a frame-rib, having a sleeve to receive the
 60 outer end of a rib, and provided with a longi-
 tudinal groove to engage the thread-eye of the
 rib, and means for limiting the inward move-
 ment of the sleeve upon the rib, substantially
 as specified. 65

3. A clasp for securing an umbrella-cover
 to a frame-rib, having a sleeve to fit upon the
 outer end of a rib, and having an open outer
 end through which the extremity of the rib
 projects, and a stop for limiting the inward
 70 movement of the sleeve, said stop consisting
 of a link, struck from a single blank of wire,
 doubled upon itself at its center and upset to
 form a stop-loop, and having its sides con-
 75 structed, respectively, to form a hook and a
 yielding tongue for closing the mouth of the
 hook, substantially as specified.

4. A clasp for securing an umbrella-cover
 to a frame-rib, having a sleeve to fit upon the
 outer end of a rib, and having an open outer
 80 end through which the extremity of the rib
 projects, and a stop for limiting the inward
 movement of the sleeve, said stop consisting
 of a link engaged at one end with the thread-
 eye of the rib, and provided at the other end
 85 with a projection to engage the inner end of
 the sleeve, substantially as specified.

5. A clasp for securing an umbrella-cover
 to a frame-rib, the same comprising a trans-
 versely-expandible resilient sleeve adapted to
 90 be secured to the umbrella-cover and receiv-
 ing therein the end of the rib, and a separate
 stop engaged at one end with the rib and pro-
 vided at its other end with a projection en-
 95 gaging with the sleeve to arrest the inward
 movement thereof upon the rib, substantially
 as set forth.

In testimony that I claim the foregoing as
 my own I have hereto affixed my signature in
 the presence of two witnesses.

CLARENCE A. SHALER.

Witnesses:

C. E. HOOKER,

HENRY HARTYERINK.