

(No Model.)

J. J. McINTYRE.
UMBRELLA ATTACHMENT.

No. 569,762.

Patented Oct. 20, 1896.

Fig. 1.

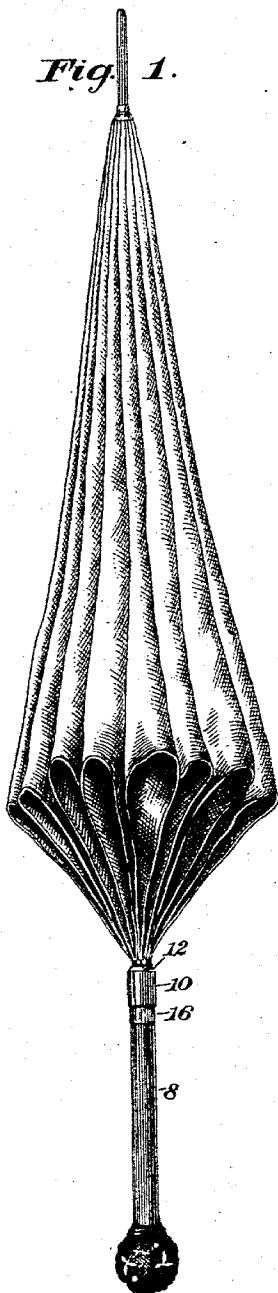


Fig. 2.

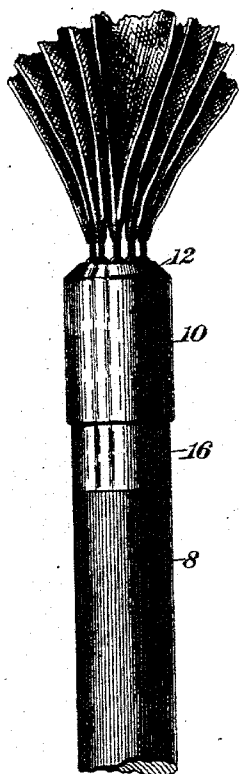


Fig. 3.

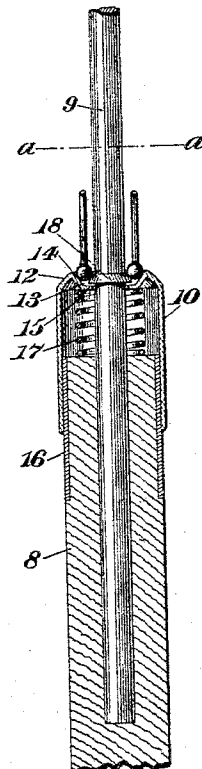


Fig. 4.

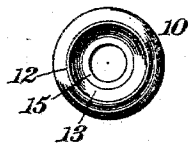
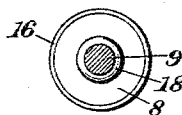


Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

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UMBRELLA ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 569,762, dated October 20, 1896.

Application filed July 24, 1896. Serial No. 600,341. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. MCINTYRE, a citizen of the United States, residing at Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Umbrella Attachments, of which the following is a specification.

This invention relates to umbrellas, and more particularly to an improved attachment for closely holding together, when the umbrella is shut, the free ends of the ribs, the object thereof being to provide an improved means of this character simple in construction and operation and effective in use.

A further object of the invention is to provide a device of this character which can be quickly and easily applied to umbrellas already in use, if desired.

In the drawings accompanying and forming part of this specification, Figure 1 is a view of an umbrella with this improved attachment thereon. Fig. 2 is an enlarged view of a portion of the handle and ribs with this improved attachment in position. Fig. 3 is a longitudinal section of the handle and this improved attachment and shows a pair of ribs held in position thereby. Fig. 4 is a top end view of this device detached; and Fig. 5 is a cross-sectional view taken in line *a a*, Fig. 3, with the attachment removed.

Similar characters designate like parts in all the figures of the drawings.

In the preferred form thereof herein shown and described the improved attachment for umbrellas comprises a sleeve 10, having a cup-shaped end 13 disposed on the inner end of the umbrella-handle 8 for sliding movement and having its rib-engaging cup-shaped end formed by an external inwardly-inclined wall 12 and an annular inclined wall 14, which wall 14 terminates in an inwardly-turned flange 15, encircling the stick 9 of the umbrella, and thereby forms not only an additional guiding means for the sleeve, but also a means for holding in position the spring hereinafter described.

In the preferred construction of umbrella a secondary, preferably metallic, sleeve 16 is fixedly secured to the handle thereof, said handle being recessed to permit the outer face of said fixed sleeve to be flush with the outer

face of the handle, and on which fixed sleeve the movable sleeve 10 slides. It will be understood, however, that the movable sleeve 10 could directly engage the handle, if desired, especially in those cases where the handle is a smooth one.

Encircling the stick 9, and disposed intermediate the flange 15 and the inner end of the handle 8, is a spiral spring 17, by means of which the movable sleeve 10 will always be held in its rib engaging or normal operative position.

As a means for preventing the sleeve from being forced too far from the handle, a stop device in the nature of a flange, (herein shown as a beveled flange 18,) whereby its outer face conforms somewhat to the shape of the ends of the ribs and thereby aids in securing the same by a wedging action, is provided and may be fixedly or integrally secured to the stick 9, as desired, directly above the flange 15 of the movable sleeve when said sleeve is in its normal operative position.

It will be observed that the tips of the umbrella-ribs are secured between two wedge-shaped surfaces 14 and 18, and are thereby firmly locked on each side against displacement.

It will be understood that in order to apply this attachment to umbrellas already in use it is simply necessary to detach the handle from the stick and place the movable sleeve 10 and its spring 17 in position on said handle, reattach the stick, and provide the same with a stop device to thereby prevent the disengagement of the sleeve from the handle.

In the use of an umbrella having this improved attachment the ribs are all gathered together in the usual manner, the sleeve forced back against the tension of its spring and then permitted to return to its normal operative position, whereby the inclined wall 14 of the recessed or cup-shaped portion 13 will engage the usual enlarged or ball-shaped portions of the ribs, and thereby hold the same closely around the stick and prevent the folds of the umbrella from flaring open, and thus do away with the rubber bands and other devices for this purpose.

Having described my invention, I claim—

1. An attachment for an umbrella, comprising a movable sleeve encircling the same and

embodying an external inwardly-inclined wall, an inner downwardly-inclined wall, and an internal flange at the lower end of said downwardly-inclined wall and encircling the stick of the umbrella; and a spring disposed intermediate said flange and the handle of the umbrella.

2. An umbrella having, in combination with a handle and a stick, a sleeve fixedly secured thereto; a movable sleeve disposed thereon and having a cup-shaped end provided with an external inwardly-inclined wall, an inner downwardly-inclined wall, and an interiorly-extending flange projecting at right angles

from said inner downwardly-inclined wall and encircling the stick of the umbrella; a spring intermediate said flange and the handle of the umbrella; and a flange secured to the stick and having an outer inclined surface conforming substantially to the contour of the inner portions of the tips and also serving to prevent the detachment of said movable sleeve.

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