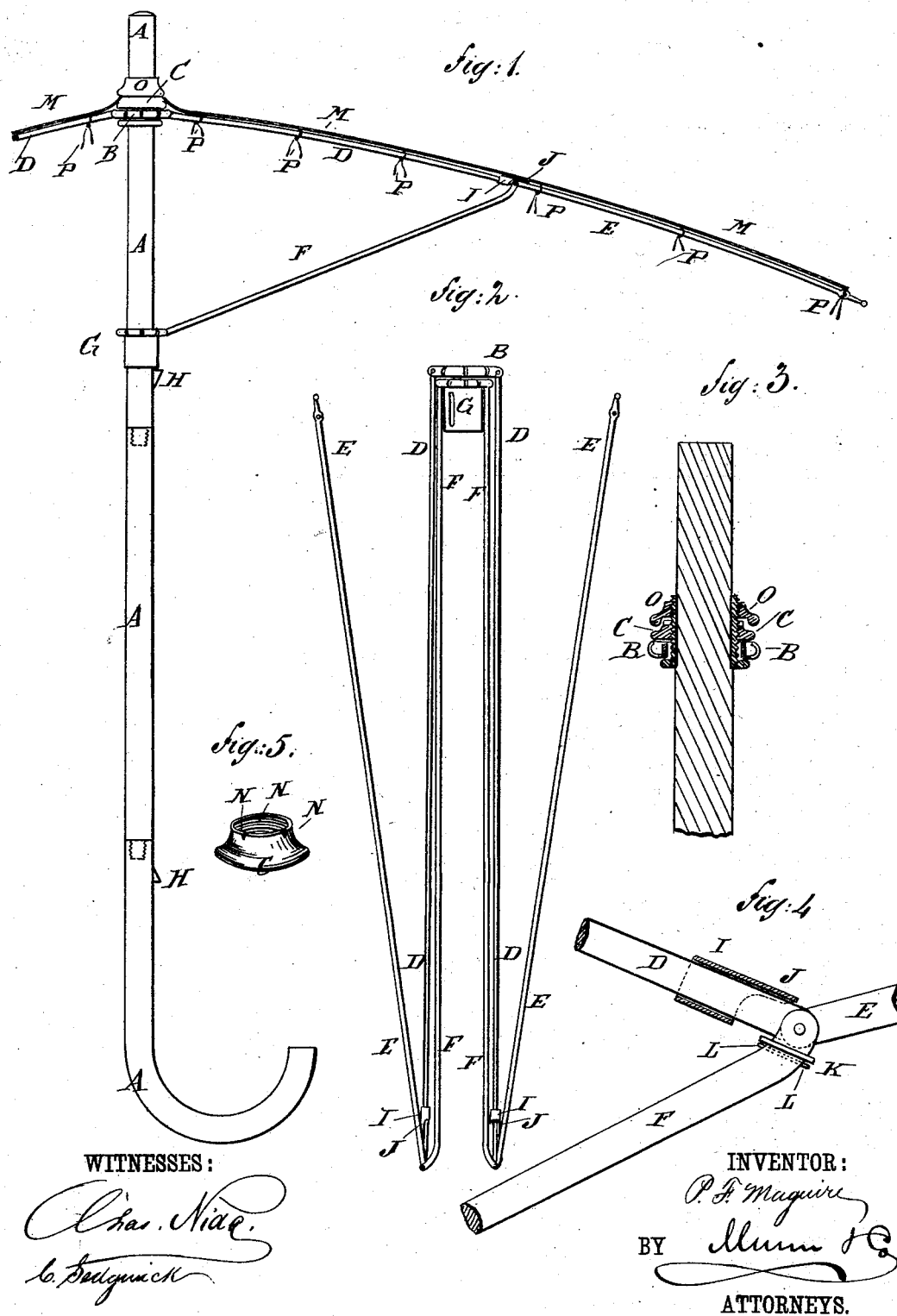


(No Model.)

P. F. MAGUIRE.  
FOLDING UMBRELLA.

No. 264,544.

Patented Sept. 19, 1882.



# UNITED STATES PATENT OFFICE.

PATRITIUS F. MAGUIRE, OF NEW YORK, N. Y.

## FOLDING UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 264,544, dated September 19, 1882.

Application filed August 4, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, PATRITIUS FELIX MAGUIRE, of the city, county, and State of New York, have invented a new and useful Improvement in Folding Umbrellas, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of my improvement, most of the ribs and braces being removed and the cover being shown in section. Fig. 2 is a side elevation of the same folded and enlarged, the stick being removed. Fig. 3 is a sectional elevation of the upper runner, a part of the stick, and the fastening-nuts. Fig. 4 is a side elevation, partly in section, of the rib-joint enlarged. Fig. 5 is a perspective view of the lower runner fastening nut.

The object of this invention is to provide umbrellas constructed in such a manner that they can be readily folded into small space for convenience in transportation.

The nature of this invention consists of a stick or staff having runners, braces, jointed ribs having sleeves and bands, a nut screwed upon said staff or upon a sleeve fitted on the latter, a cover adapted to be detachably connected to the ribs, and a cap-nut fitting upon the umbrella and the aforesaid nut.

It consists, further, in certain details of the construction and arrangement of the aforesaid elements, substantially as hereinafter more fully set forth.

A represents the stick, which is made in two or more parts or sections connected together by screw-tenons and sockets or other suitable means.

Upon the stick A, near its upper end, or upon a sleeve secured to the said stick, is screwed the stationary runner B, which is secured in place by a nut, C, also screwed upon the said stick or sleeve. The upper parts, D, of the ribs are secured to the upper or stationary runner, B, in the ordinary manner. The lower ends of the upper parts, D, of the ribs are forked to receive the upper ends of the lower parts, E, of the said ribs.

F are the braces, the outer ends of which are forked to receive the adjacent ends of the parts D E of the ribs, and the three ends are hinged

together by a rivet. The inner ends of the braces F are hinged to the lower or movable runner, G, in the ordinary manner. The runner G slides upon the stick A, and is held in each position by an ordinary spring-catch, H. Upon the lower end of the upper part, D, of the ribs is placed a sleeve, I, which is made with a projecting arm, J, upon the outer side of its lower end, to overlap the joint of the two parts D E of the ribs and hold the said joints rigid. The joint of the ribs and braces is further stiffened and strengthened by a ring or band, K, which is notched to pass two pins, L, attached to the braces F directly beneath the sections D E of the ribs, and by which the said ring is held in place adjustably.

M is the cover, which has a hole in its center for the passage of the upper end of the stick A, and has holes formed in it around the edge of its center hole to receive hooks N or other fastenings attached to or formed upon the nut C. The center of the cover M is secured in place and clamped against the cut C by a nut, O, screwed upon the stick A or upon a sleeve secured to the said stick. The cover M is provided with strings P, to be tied around the ribs D E, and which are prevented from slipping by notches formed in or projections formed upon the said ribs D E. In the outer end of each rib is formed a hole in the ordinary manner, into which the outer pair of strings is tied. With this construction the cover M can be readily put on and taken off, and can thus be easily changed for a cover of another color or material, as may be desired. With this construction the umbrella can be readily taken apart and the frame folded into a compact form, so that the umbrella can be carried in a valise or traveling-bag.

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

1. In a folding umbrella, the combination, with the braces F and the jointed ribs D E, of the rings K, substantially as herein shown and described, whereby the connection between the said braces and jointed ribs is strengthened, as set forth.

2. In a folding umbrella, the combination of the stick or staff A, the runners B G, the braces F, the jointed ribs D E, their fastening-sleeves I J and bands K, the nut C, the cover M, hav-

ing means for detachably connecting it to the ribs D E, and the cap-nut O, substantially as and for the purpose set forth.

3. In a folding umbrella, the combination,  
5 with the staff or stick A, having the runner B and the ribs D F, of the nut C, having hooks N at its upper edge, and the cover M, provided around its central opening with a series of ad-

ditional openings, which receive the hooks N, said cover being detachably connected to the 10 said ribs, substantially as and for the purpose set forth.

PATRITIUS F. MAGUIRE.

Witnesses:

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