

(No Model.)

A. G. MOYER.
COMBINED CANE AND UMBRELLA.

No. 579,162.

Patented Mar. 23, 1897.

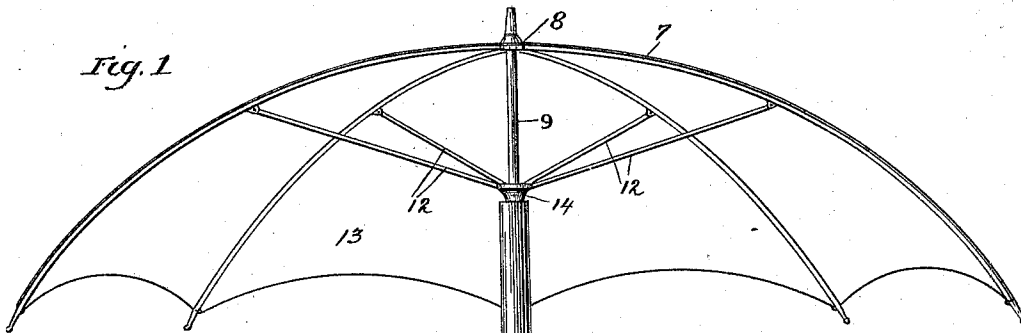


Fig. 1.

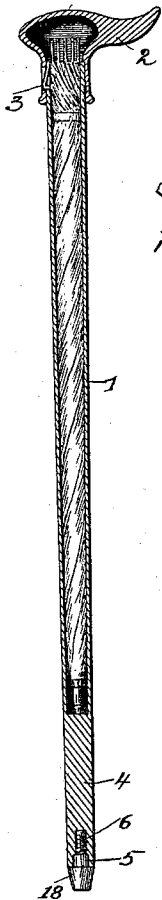


Fig. 2.

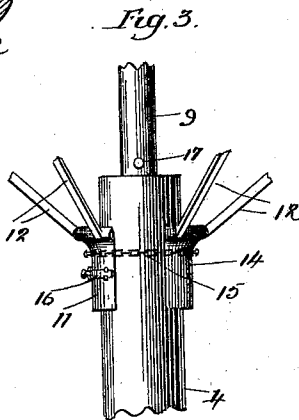


Fig. 3.

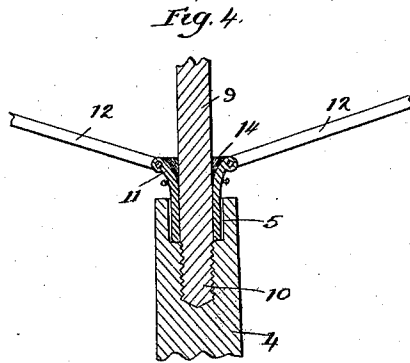


Fig. 4.

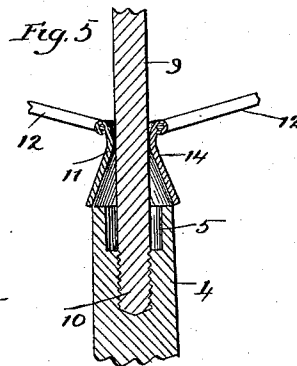


Fig. 5.

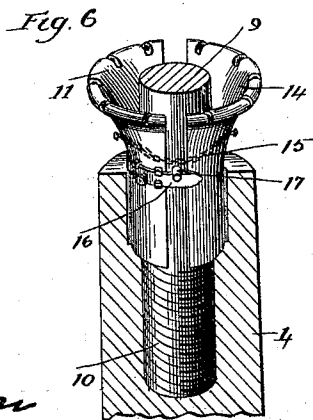


Fig. 6.

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UNITED STATES PATENT OFFICE.

ALLEN G. MOYER, OF PHILADELPHIA, PENNSYLVANIA.

COMBINED CANE AND UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 579,162, dated March 23, 1897.

Application filed June 27, 1896. Serial No. 597,101. (No model.)

To all whom it may concern:

Be it known that I, ALLEN G. MOYER, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in a Combined Cane and Umbrella, of which the following is a specification.

My invention relates to a new and useful improvement in a combination of folding umbrellas and canes, and has for its object to provide a device of this description which may be quickly converted into either a cane or umbrella, either of which will resemble the ordinary device of this description, an umbrella, when not in use, being folded and passed into the staff, which is closed by the handle, thus giving every appearance of a cane, and when the umbrella is to be used it is removed from the staff and attached to the end thereof, when it may be raised and lowered very much after the manner of the ordinary umbrella.

With these ends in view my invention consists in the detail of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction and operation in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a section of an umbrella when opened for use, showing the staff in elevation. Fig. 2 is a section of the staff, illustrating the relative position occupied by the umbrella when incased therein; Fig. 3, a detail side elevation of the upper end of the staff, showing the sliding clamp when extended sufficiently to pass over said staff; Fig. 4, a detail section of the upper end of the staff, showing the sliding clamp engaged with the recess therein; Fig. 5, a similar view showing the sliding clamp separated prior to being passed over the end of said staff; and Fig. 6, a detail perspective of the clamp, lower end of the umbrella and rod, and upper end of the staff, the latter being in section.

In carrying out my invention I provide a staff 1, which in outward appearance resembles an ordinary walking-cane, but has a hol-

low interior of sufficient size to receive a light close-folded umbrella after said umbrella has been folded, and 2 is a handle adapted to slide over the lower end of this staff and be held in position by a suitable catch 3, means being provided for the releasing of said catch when it is desired to remove said handle. The staff is tapering, and the small end thereof is made solid, as at 4, and has a recess 5 formed therein, and also internal threads 6 formed in the central hole leading from said recess, for the purpose herein-after set forth. The bows 7, which form the frame of the umbrella, are pivoted in the usual manner to the crown 8, which latter is secured upon the rod 9, near one end thereof, the opposite end of said rod being threaded at 10, whereby it is adapted to be attached to the small end of the staff by the engagement of the threads 10 with the threads 6, as further shown in Figs. 4, 5, and 6. A clamp 11, which is formed of two sections, is adapted to slide upon the rod 9 and has pivoted thereto the stays 12, which in turn are pivoted to the bows 7 in the usual manner, thus completing the frame of the umbrella, over which is stretched a cover 13.

The upper portions of the clamp 11 are flared outward, as at 14, so that they may be separated from each other at their lower ends, as clearly shown in Fig. 5, thus permitting these lower ends to pass over the lower end of the staff, and should the clamp be forced downward after these ends have been thus opened each half of the clamp will so stretch as to pass onto the staff, as clearly shown in Fig. 3, and to prevent their disengagement the chain 15 surrounds the two sections and is secured thereto in any suitable manner, said chain being of a length sufficient to permit the opening of the section-clamps to the desired distance, and when these sections are again brought together the chain will be slackened, as shown in Fig. 6.

To secure the umbrella in its opened position, as shown in Fig. 1, it is only necessary to slide the clamp upward upon the staff until it passes the upper end thereof, when the lower ends of the sections of said clamp may be forced inward, so as to conform to the size of the rod 9, and permitting it to move downward upon said rod into the recess 5, as clearly

shown in Fig. 4, when they will be held by the action of the bows against the stays, as will be readily understood.

To guard against the possibility of the umbrella being turned wrong side out by heavy winds or from other causes, a latch 16 is arranged to slide upon one of the sections of the clamp, and a pin 17 is secured to the rod 9 so as to project therefrom between the sections of said clamp, and when the clamp is seated in the recess 5 this latch may be slid into engagement with the under side of said pin, thus preventing any upward movements of the clamp, whereby the stays and bows will be rigidly held in the position shown in Fig. 1.

In converting my improvement from an umbrella to a cane the rod 9 is unscrewed from the staff, the umbrella folded into the smallest possible compass, the handle 2 removed from the staff, and the umbrella inserted within said staff, and, finally, the handle replaced upon the staff, when it will be held by the latch 3, and if found desirable a ferrule 18 may be secured upon the small end of the staff, as shown in Fig. 2, whereby the recess 5 is closed against accumulation of dirt, and when such a ferrule is used it is preferable to make it of a size adapted to pass within the hollow of the staff, so that when the umbrella is secured to the small end of the staff the ferrule may be stored therein.

From this description it will be seen that by a very simple arrangement both an umbrella and cane of ordinary appearance is

provided and may be quickly converted from one to the other, and when so converted will serve all the purposes for which each is intended.

Having thus fully described my invention, what I claim as new and useful is—

1. In combination, a hollow staff having a solid end provided with a recess, said recess being smaller at the bottom where it is screw-threaded, a rod fitting in the screw-threaded portion, a runner secured on the rod consisting of semicircular sections flared at the top, stays pivoted at the top of the runner, the lower end of the runner lying in the annular recess and adapted to spread automatically when elevated, substantially as described.

2. In combination, a hollow staff having a solid end provided with a recess, said recess being smaller at the bottom where it is screw-threaded, a rod fitting in the screw-threaded portion, a runner secured on the rod consisting of semicircular sections flared at the top, stays pivoted at the top of the runner, the lower end of the runner lying in the annular recess and adapted to spread automatically when elevated and means for lengthening the spread of the sections, substantially as described.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

ALLEN G. MOYER.

Witnesses:

S. S. WILLIAMSON,
MARK BUFORD.