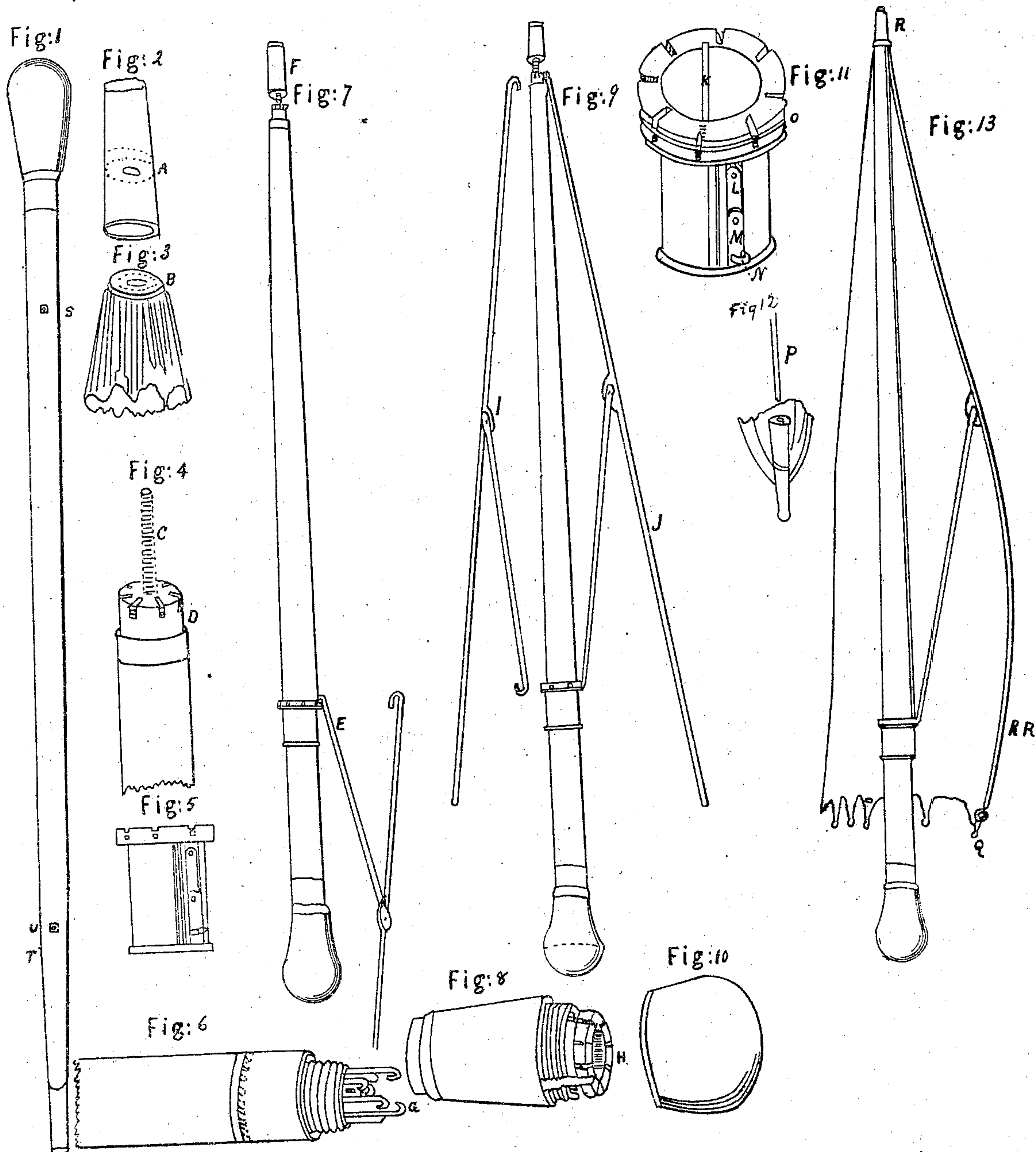


W.F. Turner

Umbrella.

Nº 80785.

Patented Aug. 4. 1868.



Witnesses:

George Wunderlich  
for Massey

Inventor:

W.F. Turner

# United States Patent Office.

WILLIAM F. TURNER, OF PHILADELPHIA, PENNSYLVANIA.

*Letters Patent No. 80,785, dated August 4, 1868.*

## IMPROVEMENT IN UMBRELLAS.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM F. TURNER, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Umbrellas; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The subject of this invention is an improvement upon the method of combining an umbrella and cane, so as to render it convertible into an umbrella, for which Letters Patent of the United States, No. 70,378, were granted to me on the 29th day of October, A. D. 1867.

In carrying out my invention, I provide a hollow cane, of wood or other suitable material, and apply to the same a ferrule, a head, and a cap, all of which parts are detachable, as shown in Figures 6, 7, 8, 9, and 10. The device is convertible, it being used as a walking-stick or umbrella, as may be desired. When used as a walking-stick, the hollow cane encloses the ribs, stretchers, and runner, and then presents the appearance in which it is represented in Figure 1. The cane, as transformed into an umbrella, is seen in Figure 13. The cover of the umbrella is to be carried in the pocket, but all the other appliances are a part of or enclosed within the walking-stick.

S and U are small plates, fastened to the exterior of the cane. These plates have each a hole to receive a pin on the runner, which holds the cover in its open or closed position, as presently explained.

In fig. 6 is shown the upper portion of the cane, with the head, fig. 8, and cap, fig. 10, removed. The cane is the receptacle for the ribs and stretchers, as here clearly shown. The head, fig. 8, is the receptacle for the runner, which is shown protruding at H.

Figure 2 represents the ferrule detached from the cane. A is a nut, within the ferrule, adapted to fit upon the screw C, Figure 4, and be screwed down upon the ferrule-end of the cane, to secure the ribs and cover, as shown at R R, fig. 13.

Figure 3 represents the central portion of the umbrella-cover, with a brass plate attached, said plate having a central aperture, and being placed upon the screw C previously to the application of the ferrule thereto when an umbrella is to be constituted.

Permanently attached to the ferrule-end of the cane is an end-piece or thimble, D, fig. 4, provided with notches, which, by means of suitable depressions or an encircling wire ring, are made to form attaching-points for the ribs, as shown in fig. 9.

Figures 5 and 11 represent the runner detached. L represents a steel spring, attached to the runner, and having a small inwardly-projecting pin. M is a brass slide, made movable upon the spring L by means of the knob N, and employed to press the pin on the spring into the holes in the plates S U, so as to thus maintain the open or closed condition of the umbrella. The runner has a slit or opening, K, fig. 11, which, in connection with a pin, T, inserted in the cane, as seen in fig. 1, serves to limit the movement of the runner upon the cane or handle, so as to arrest the same, when the cover is properly expanded, in the act of raising the umbrella.

In fig. 7, the runner is shown as slipped over or upon the cane, it being held in the position seen by the pin on the spring L. This figure also illustrates the method of hooking the stretchers E on to the wire ring O, which encircles the notches in the runner, as shown in fig. 11. As soon as the stretchers are hooked to the runner, the ribs are raised and hooked in the notches in the end-piece or thimble D, fig. 4, as shown in fig. 9.

Figure 12 is a view of one of the gilded tips attached to the umbrella-cover. P is the end of a rib. Fig. 13 shows the cover secured by the ferrule, and the rib bent for insertion into the tip Q, which done, the umbrella is ready for use.

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

1. The notches in the permanently-attached thimble D, or the ferrule-end of the cane, wherein to hook or attach the ends of the ribs, as herein described and represented.

2. The notched runner, figs. 5 and 11, provided with the spring L, having a detaining-pin, the slide M, and the encircling-ring O, and adapted to occupy the detachable head of the walking-stick, as herein described and represented.

WM. F. TURNER.

Witnesses:

GEORGE WUNDERLICH,

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