

C. W. CARSON.  
CANE UMBRELLAS.

No. 180,111.

Patented July 25, 1876.

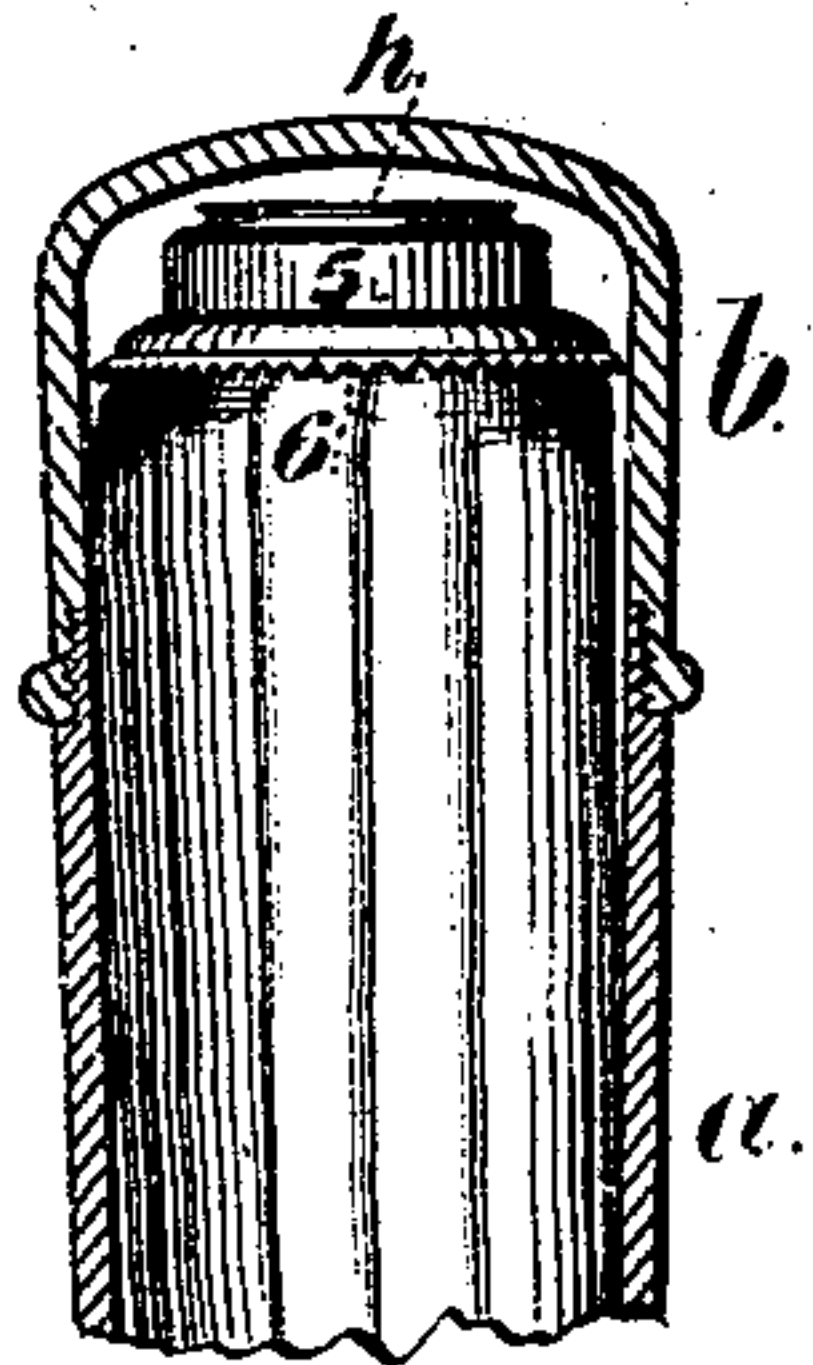


Fig. 2.

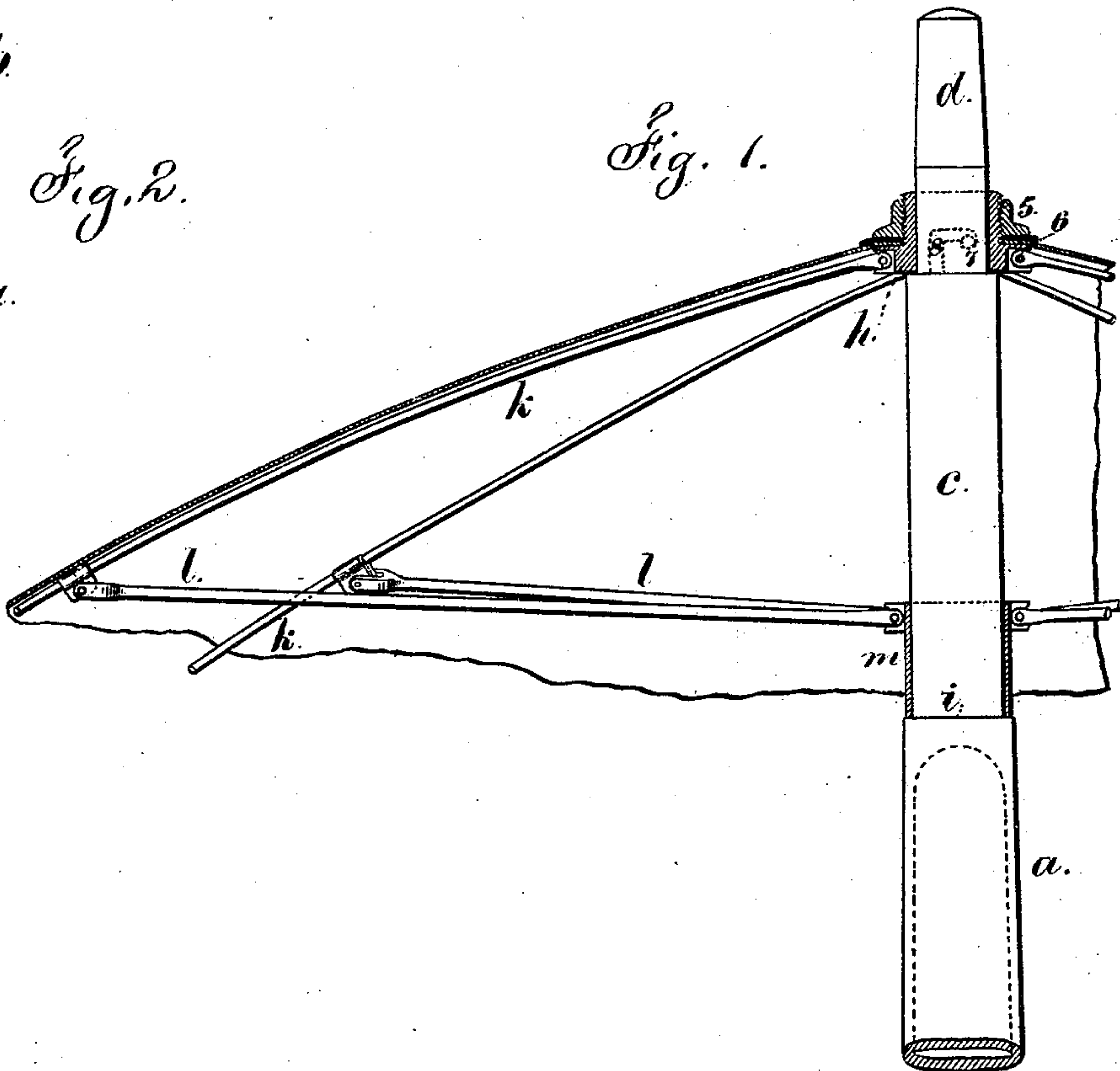


Fig. 1.

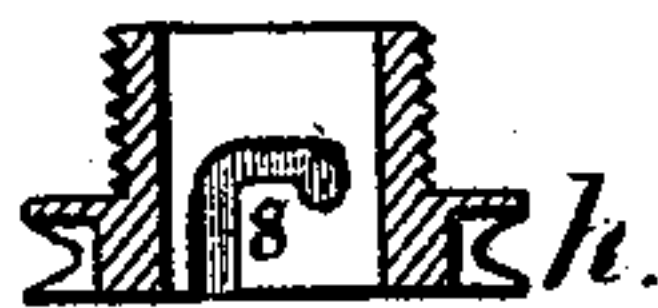
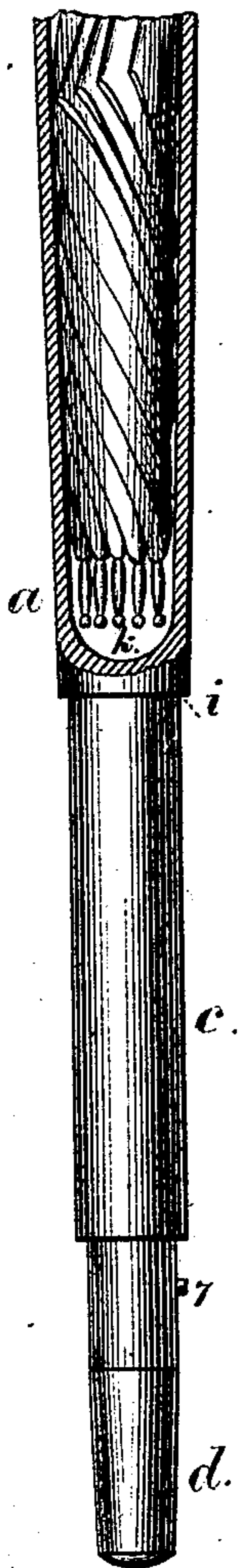
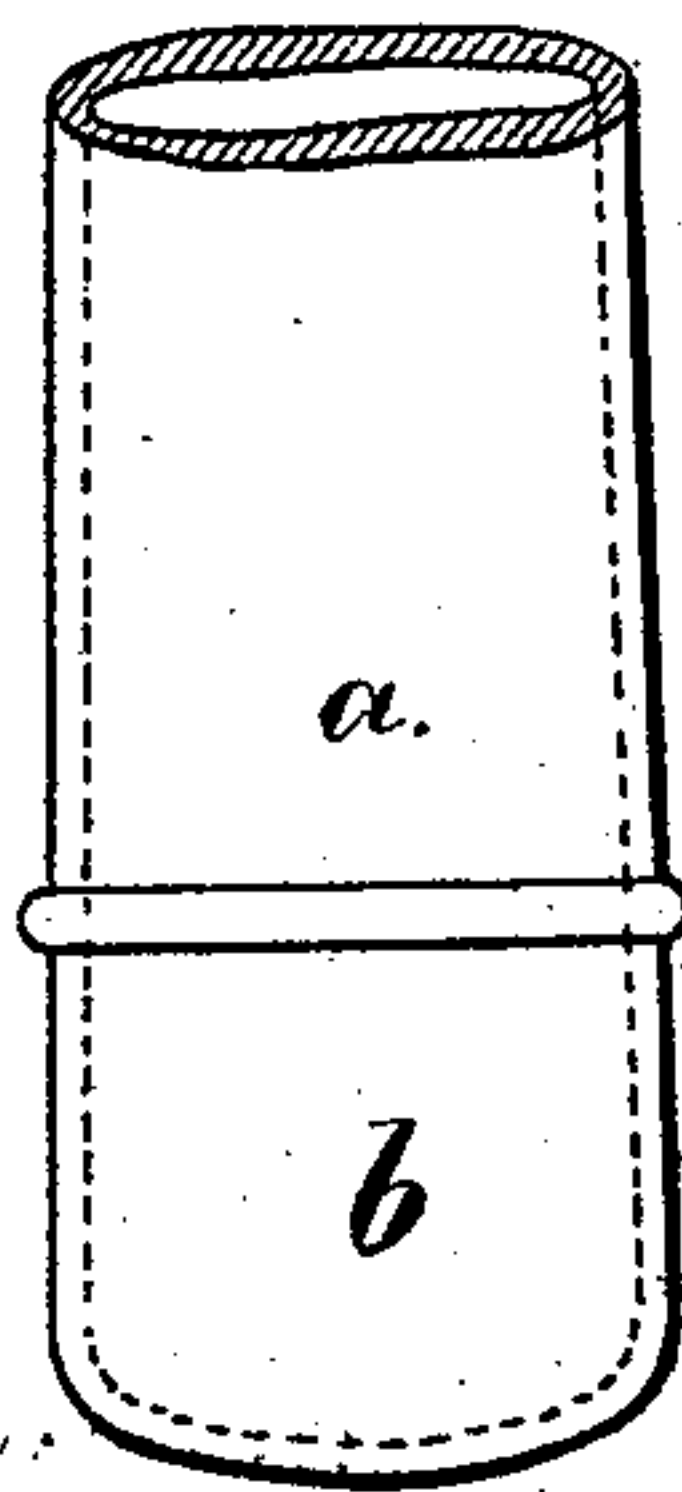
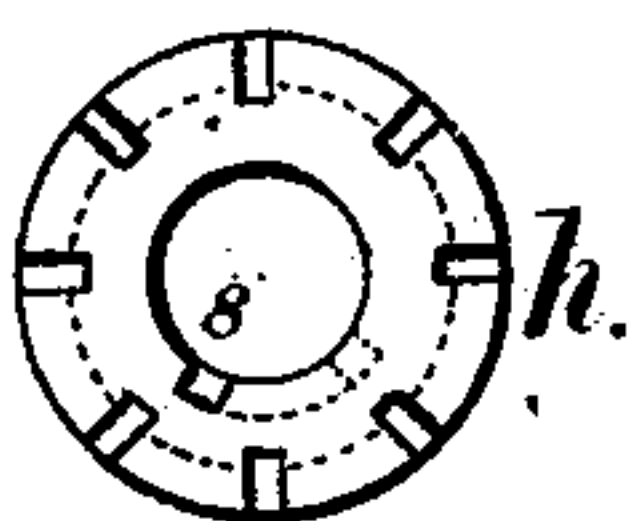


Fig. 3.



Witnesses,  
Chas. H. Smith  
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per Lemuel W. Serrell atty

# UNITED STATES PATENT OFFICE

CHARLES W. CARSON, OF BROOKLYN, NEW YORK.

## IMPROVEMENT IN CANE-UMBRELLAS.

Specification forming part of Letters Patent No. 180,111, dated July 25, 1876; application filed November 22, 1875.

*To all whom it may concern :*

Be it known that I, CHARLES W. CARSON, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Cane-Umbrellas, of which the following is a specification :

Hollow canes have been made for receiving umbrellas, which can be spread and attached at the end of the cane or stick, after having been withdrawn from the case or the reverse.

My improvement relates to the construction of the stick at the end receiving the umbrella, and in the crown or notch piece.

In the drawing, Figure 1 is a vertical section, showing part of the umbrella spread. Fig. 2 is a partial section of the cane, with the umbrella within it; and Fig. 3 is a section and end view of the crown or notch ring.

The hollow cane *a* or walking-stick is provided with a removable or screw cap, *b*, and the lower portion *c* of the cane is parallel, or nearly so, and provided with a ferrule, *d*, and there is a shoulder at *i*. The stick is not made with a small rod at the end, as in some umbrellas heretofore in use, and which rod requires a movable tubular cover when used as a cane, but my stick has the external appearance of an ordinary walking-cane.

The umbrella is made with a crown-piece, *h*, to which the ribs *k* are jointed, and *l* are the stretchers, jointed at one end to the runner *m*, and at the other ends to the ribs *k* at a distance from the crown *h* a little greater than the length of such stretchers, so that the runner *m* can be pushed up toward the crown, and thus the umbrella be closed.

The crown-piece or notch-ring *h* is not made with the notches passing across it, as usual. It is only recessed at the edge toward one side. The other side is left plain, the object of this being to prevent the ends of the ribs coming into contact with the cover and injuring the same when the umbrella is closed and forced into the tubular case. A screw-ring, 5, serves to clamp the washer 6 to the cover. This crown-piece is made with a groove, to hold the wire that passes through holes in the ends of the ribs, as usual.

When open, the ribs of the umbrella are

bent, as usual, and the stretchers stand nearly horizontal. The traveller rests, at its lower end, upon the shoulder *i*.

When the umbrella is to be closed around the stick, the runner is pushed up toward the crown and the umbrella closed; and, when the crown is disconnected from the parallel stick *c*, the umbrella can be rolled into a small compass, and inserted into the tubular cane, with the outer ends of the ribs passing in first. This allows of the umbrella occupying but a small space, because the crown and larger parts of the frame occupy the larger upper portion of the umbrella case or cane.

In order to connect the crown-piece *h* upon the stick *c* removably, I employ a stud, 7, and bayonet-notch 8, the stud being shown upon the stick, and the notch in the crown, but they may be reversed.

The spring of the umbrella causes the crown to press upwardly, and the notched end of the slot to receive the pin, and be held by it firmly.

An umbrella constructed as aforesaid is very simple, cheap, durable, and there are no cumbersome parts that render the umbrella clumsy, as found in umbrellas of this class heretofore made.

I claim as my invention—

1. The hollow tapering umbrella-case, made in the form of a cane or stick, and with the parallel portion *c* adapted to receive the runner *m*, and to form a narrow shoulder at *i*, for such runner when the umbrella is opened, and with the ferrule at the end of such stick, adapted to pass through and be secured to the crown *h* of the umbrella, as set forth.

2. The crown *h*, notched on the edge and toward one side, and plain at the side that comes next to the cover, in combination with the wire passing through the holes at the ends of the ribs, and around the crown, for the purposes set forth.

Signed by me this 18th day of November, A.D. 1875.

CHAS. W. CARSON.

Witnesses:

GEO. T. PINCKNEY,  
CHAS. H. SMITH.