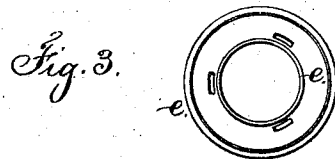
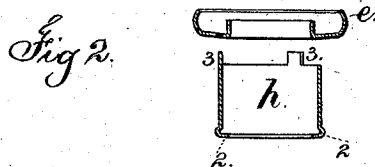
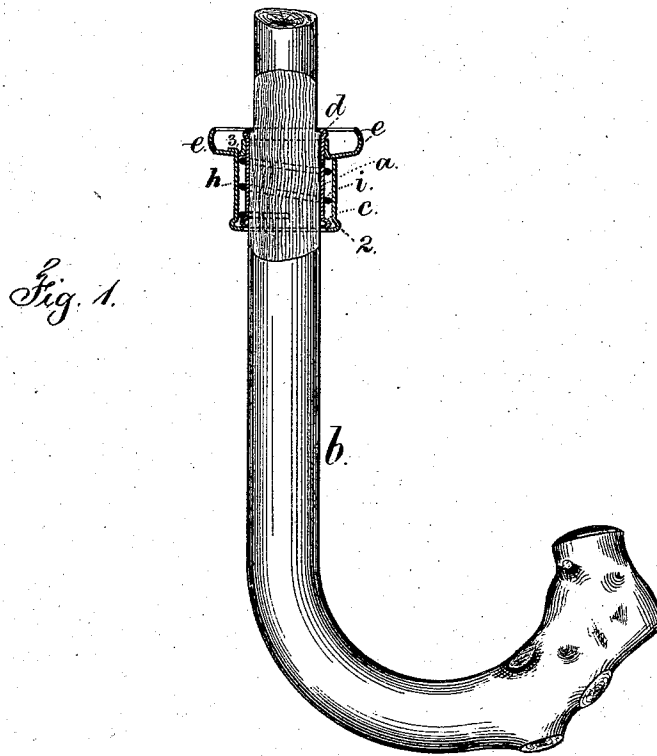


G. W. TUCKER.
Umbrella-Tip Retainers.

No. 156,510.

Patented Nov. 3, 1874.



Witnesses,

Charles Smith
Randa Terrell

Inventor.
George W. Tucker.
per Lemuel W. Terrell
att'y

UNITED STATES PATENT OFFICE.

GEORGE W. TUCKER, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE
AMERICAN RING COMPANY, OF SAME PLACE.

IMPROVEMENT IN UMBRELLA-TIP RETAINERS.

Specification forming part of Letters Patent No. **156,510**, dated November 3, 1874; application filed
August 27, 1874.

To all whom it may concern:

Be it known that I, GEORGE W. TUCKER, of Waterbury, in the county of New Haven and State of Connecticut, have invented an Improvement in Tip-Cups for Umbrellas, of which the following is a specification:

Tip-cups have been applied upon the handles of umbrellas and parasols to retain the ends of the ribs when the umbrella is closed, and a spring has been applied to move that tip-cup, and press it upon the ends of the ribs.

My invention relates to a peculiar construction of spring tip-cup that is attached to the handle, and operates to hold the tips of the ribs.

I make use of a cylinder that slides upon the handle, and is held in place by a pin, after being properly positioned. At the ends of this cylinder are ribs or flanges, and around the cylinder is a sliding tip-cup, and a spring. One flange of the cylinder forms an abutment for the spring, and the other flange or rib a stop to the moving tip-cup, and the cylinder that surrounds the spring is connected to the tip-cup by tongues passing through slots.

In the drawing, Figure 1 is a section of the tip-cup complete. Fig. 2 is a sectional view, detached, of the tip-cup and its cylinder, and Fig. 3 is a plan of the tip-cup. The cylinder *a* is of a size to fit the handle *b*. Said cylinder has a rim or flange, *c*, at one end forming an

abutment for the spring *i*, and around this cylinder *a* is the tip-cup *e* that slides freely upon the cylinder *a*, but is retained by the bead or flange *d*.

By this construction the wire-spring *i* acts to press the tip cup towards the tips, and retain them in place after they have been held together, and the tip-cup slipped over them. In order to cover up the spring *i*, and furnish a convenient means for drawing back the tip-cup against the action of the spring, I employ the cylinder *h* having an inward flange, 2, at one end, and tongues 3 at the other, and these tongues, entering mortises in the tip-cup, as seen in Fig. 3, and being turned up, serve to connect the cylinder and the tip-cup, so that the latter can be drawn back by grasping the former.

I claim as my invention—

The cylinder *h*, inclosing the spring *i*, and connected to the tip-cup *e* by tongues passing through mortises, in combination with the cylinder *a* and flanges *c* and *d* at the respective ends, forming stops for the spring and cup, all as described and set forth.

Signed by me this 19th day of August, 1874.

GEORGE W. TUCKER.

Witnesses:

HENRY M. STOCKING,
L. J. ATWOOD.