G. W. TUCKER.

Umbrella-Tip Retainers.

No. 156,510. Patented Nov. 3, 1874.

Fig. 1.

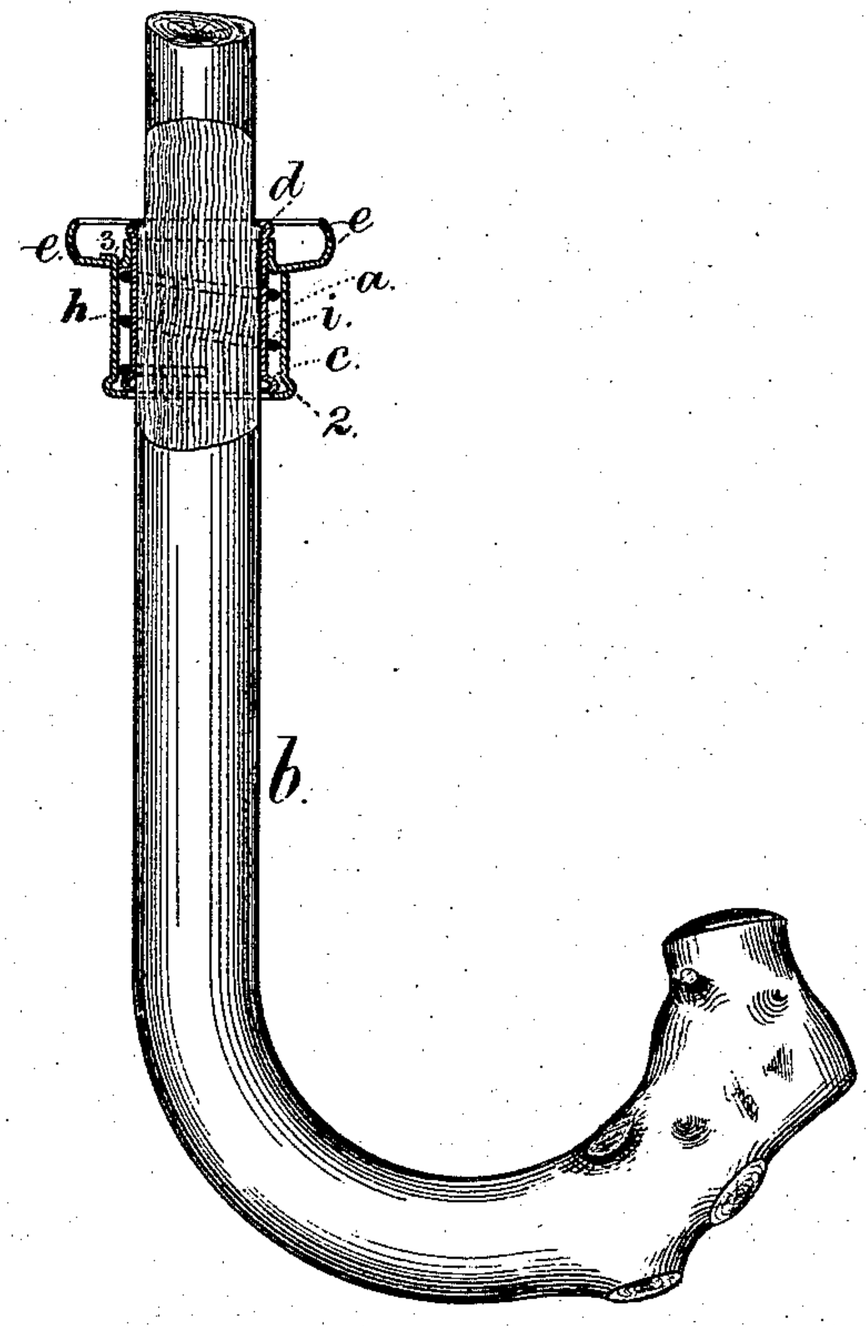


Fig 2.

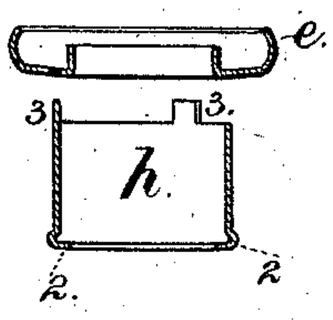
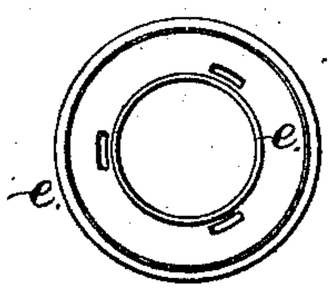


Fig. 3.



Witnesses,

Chas H. Smith

Harold Serrell

Inventor.

George W. Tucker

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Atty

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.

GEO. W. TUCKER.

Witnesses:

HENRY M. STOCKING,

L. J. ATWOOD.