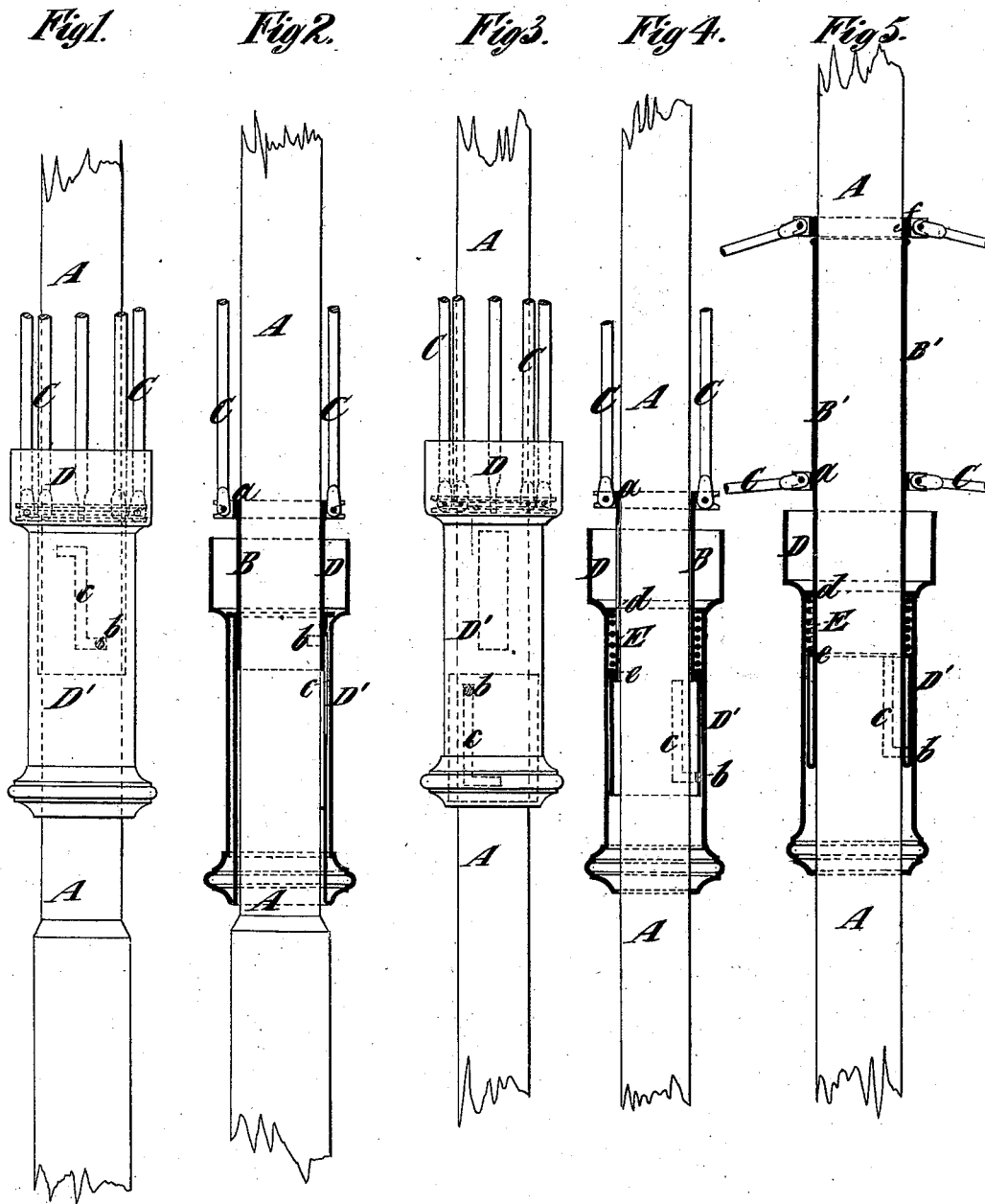


M. STEIB.
Umbrella-Tip Cup.

No. 221,122.

Patented Oct. 28, 1879.



Witnesses:
Fred Haynes
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Inventor.
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UNITED STATES PATENT OFFICE.

MARTIN STEIB, OF HAMBURG, GERMANY, ASSIGNOR TO HIMSELF AND
STANISLAW BIERNATZKI, OF SAME PLACE.

IMPROVEMENT IN UMBRELLA TIP-CUPS.

Specification forming part of Letters Patent No. **221,122**, dated October 23, 1879; application filed July 31, 1879; patented in England, July 24, 1877, in France, July 31, 1877, and in Germany, August 8, 1877.

To all whom it may concern:

Be it known that I, MARTIN STEIB, of Hamburg, in the Empire of Germany, have invented certain new and useful Improvements in Umbrellas and Parasols, of which the following is a specification.

My present invention is the one for which were granted to me British Letters Patent, dated July 24, 1877, French Letters Patent, dated July 31, 1877, and German Letters Patent, dated August 8, 1877.

My invention relates to means whereby, when the umbrella or parasol is closed, the stretchers may be held close to the stick and covered, so as to prevent their ends from injuring the covering of the umbrella or parasol.

My invention consists in the combination, with the runner and notch-ring of an umbrella or parasol, to which the ends of the stretchers are attached and adapted to be moved along the stick to open the umbrella or parasol, of a sleeve fitting upon said runner, and provided with a cup adapted to receive the ends of the stretchers when the umbrella is closed, and having a slight movement upon the runner for that purpose, the said runner and sleeve being provided the one with a pin and the other with an angular slot engaging with said pin for the purpose of holding the sleeve in different positions upon the runner.

In the accompanying drawings, Figure 1 represents a side view of a portion of an umbrella-stick, notch-ring, runner, and cup, showing said cup adjusted over said notch-ring and the ends of the stretchers. Fig. 2 represents a sectional view of such notch-ring, runner, and cup, showing the cup adjusted to open the umbrella. Figs. 3 and 4 are, respectively, a side view and section of portions of an umbrella of slightly-modified form; and Fig. 5 is a side view of a portion of the stick, and a sectional view of the notch-ring, runner, and cup applied to what is known as a "balanced umbrella."

Similar letters of reference designate corresponding parts in all the figures.

Referring first to Figs. 1 and 2, A designates a portion of the stick of an umbrella or

parasol; B, a runner moving upon said stick and having a notch-ring, *a*, at its upper end. C designates stretchers, which are of the usual form, and are represented as secured to the notch-ring *a* by a wire passing through their ends and lying in a groove in said notch-ring. D designates a cup formed upon the upper end of a sleeve, D', fitting outside the runner B, and secured thereto in such manner as to move with it along the stick, and also having a slight longitudinal movement upon said runner.

The mode of connection here represented consists of a pin, *b*, projecting in this instance from the runner and engaging with a slot, *c*, in the sleeve D', and forming therewith a bayonet-lock.

When it is desired to raise the umbrella the cup D is adjusted to its lowest position, as shown in Fig. 2, and held there by turning the sleeve D', leaving the notch-ring elevated above it to enable the stretchers to swing down into a nearly-horizontal plane.

In order to make a neat finish the sleeve D' is made of two thicknesses of sheet metal, as clearly shown in Fig. 2, and the slot *c* for the reception of the pin *b* is formed in the inner thickness. When the umbrella is closed the sleeve D' and cup D are adjusted into the position shown in Fig. 1, where they are held by slightly twisting them, and in this position the cup D covers the notch-ring and holds the stretchers tightly against the stick. It also prevents the covering from being injured by abrasion against the rough notch-ring and the wire fastening of the stretchers.

The umbrella shown in Figs. 3 and 4 differs from that just described in having a spring, E, interposed between a projecting flange, *d*, on the sleeve D' and a shoulder, *e*, upon the runner B. This spring, when the cup D is not otherwise actuated, always supports it in its highest position over the notch-ring, and when this spring is used the notch *c* is only provided with a transverse cut or notch at one end, while in Figs. 1 and 2 a transverse notch at each end of the vertical slot *c* is required.

In Fig. 5 I have represented my invention

as applied to an umbrella of the kind known as a "balanced umbrella," which is so constructed that when open the stretchers are adjusted slightly above a horizontal plane, and hold the umbrella open without the use of the spring-catch usually employed.

B' represents an extension of the runner B, which extends above the notch-ring *a*, and is of a length to reach the top notch, *f*, and abut against it when the umbrella is opened.

I am aware that umbrellas have heretofore been provided with a cup for receiving the ends of the stretchers attached to and moving with the runner, and having a slight longitudinal movement upon the runner; and I am also aware that umbrellas have heretofore been provided with a bayonet-joint for locking the runner to the stick. These I do not claim as my invention.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with an umbrella-run-

ner, B, of a tip-cup, D, and attached sleeve D', fitting upon said runner, so as to be capable of being moved longitudinally thereon, the said sleeve and the said runner being provided the one with a pin, *b*, and the other with an angular slot, *c*, engaging with said pin for holding the sleeve in different positions on the runner, substantially as specified.

2. The combination, with an umbrella-runner, B, of a tip-cup, D, and attached sleeve D', fitting upon said runner so as to be capable of being moved longitudinally thereon, the said sleeve and the said runner being provided the one with a pin, *b*, and the other with an L-shaped slot engaging with said pin, and a spring, E, fitting between the runner and sleeve, substantially as specified.

MARTIN STEIB.

Witnesses:

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