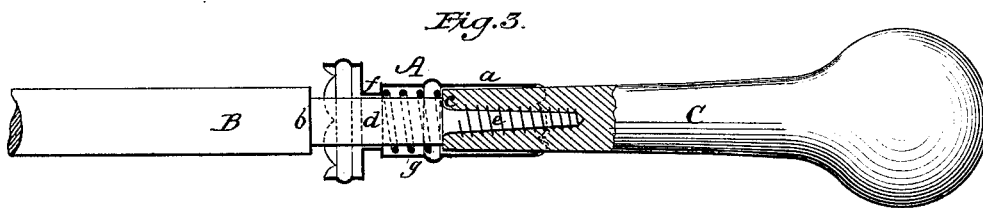
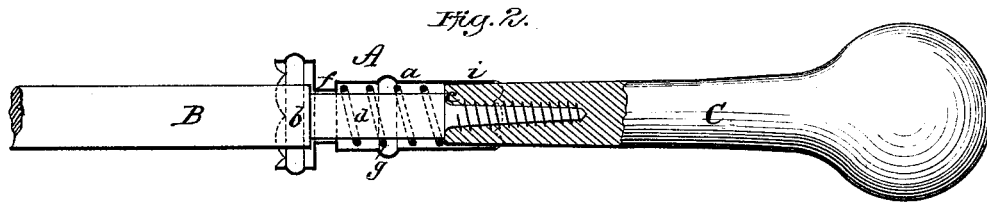
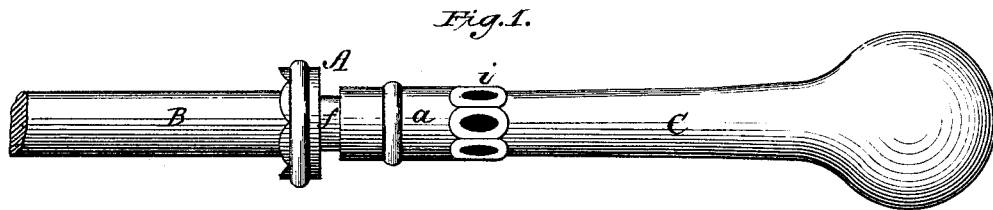


A. DITTRICH.
Umbrella Tip-Cup.

No. 202,710.

Patented April 23, 1878.



Attest:

Wm Clark
J. W. Merrick

Inventor:

Adolph Dittrich

UNITED STATES PATENT OFFICE.

ADOLPH DITTRICH, OF ST. LUKES, ENGLAND.

IMPROVEMENT IN UMBRELLA TIP-CUPS.

Specification forming part of Letters Patent No. **202,710**, dated April 23, 1878; application filed February 12, 1878.

To all whom it may concern:

Be it known that I, ADOLPH DITTRICH, of St. Lukes, in the county of Middlesex, England, have invented a new and Improved Umbrella Tip-Cup; and I do hereby declare that the following is a full, clear, and exact description of the same.

As umbrellas and parasols are usually constructed, the tip-cup and its spring require to be slid along the stick to their place on the handle, which involves the dismounting of the whole frame, if the tip-cup be applied after the umbrella or parasol has been fitted up.

My invention relates to the construction and arrangement of parts whereby the tip-cup may be readily applied without difficulty or delay, and without requiring detachment of any portion of the frame of the umbrella or parasol.

In the annexed drawing, Figure 1 represents an external view of a spring tip-cup applied to an umbrella-stick according to my invention. Fig. 2 represents a central longitudinal section of the same. Fig. 3 represents a similar section, the tip-cup being shown drawn back, as for releasing the tips of the umbrella-ribs.

The tip-cup A is fitted to slide directly on the reduced portion *d* of the umbrella-stick, between two shoulders, *b* *c*, formed, respectively, on the stick B and handle C. In order to mount the improved tip-cup in its place without sliding it along from the point or small end of the stick, the handle C is made separate from the stick B, (technically known as the "fit-up,") and united thereto by a screw-joint, *e*. The tip-cup is provided with a tubular extension, *a*, longer than the neck or reduced portion *d*, so as to cover the upper shoulder *c*, and of a diameter to fit closely and slide upon the handle C, as shown. In the annular space between this tubular extension *a* and the neck *d*, which it incloses, a spiral spring, *g*, is located, which encircles the

neck *d*, and abuts at one end against the shoulder *c*, and at the other end against a collar or neck, *f*, formed on the tubular extension *a*, between it and the cup A, and fitting on the neck *d* of the stick, so as to strengthen the neck, and guide the cup in its sliding movement. By locating the spring *g* upon a neck smaller than the handle C, the diameter of the tube *a* need not be larger than necessary for it to slide on the handle C, and the spring tip-cup is thus made as neat in appearance as a tip-cup without a spring. The cup abuts against the shoulder *b*, and the whole cup is thus confined and works between the two shoulders. The outer end of the tubular extension *a* is engraved or otherwise ornamented at *i* with a perforated or other design, and left bright to imitate the ordinary band with which the handle is usually ornamented, the rest of the tube *a* between this portion *i* and the cup proper being colored or painted to match the handle, so that at a cursory glance the imitation band will appear to be altogether separated from the cup-extension *a*.

I am aware umbrella-sticks have been reduced in thickness at the lower end to receive the springs of tip-cups, and I do not therefore claim such construction or combination.

What I claim is—

In combination with the stick B, part *d*, screw *e*, and the detachable handle C, the tip-cup A, having the reduced portion *f* and extension *a*, the spiral spring *g*, acting against the shoulder *c*, and the neck *d*, which latter also abuts the shoulder *b* of the stick, as shown and described, for the purpose specified.

The above specification of my invention signed by me this 17th day of January, 1878.

ADOLPH DITTRICH.

Witnesses:

WM. CLARK,
T. W. KENNARD.