

No. 688,627.

Patented Dec. 10, 1901.

U. G. FRY.
UMBRELLA TIP CUP.

(Application filed July 19, 1901.)

(No Model.)

Fig. 1.

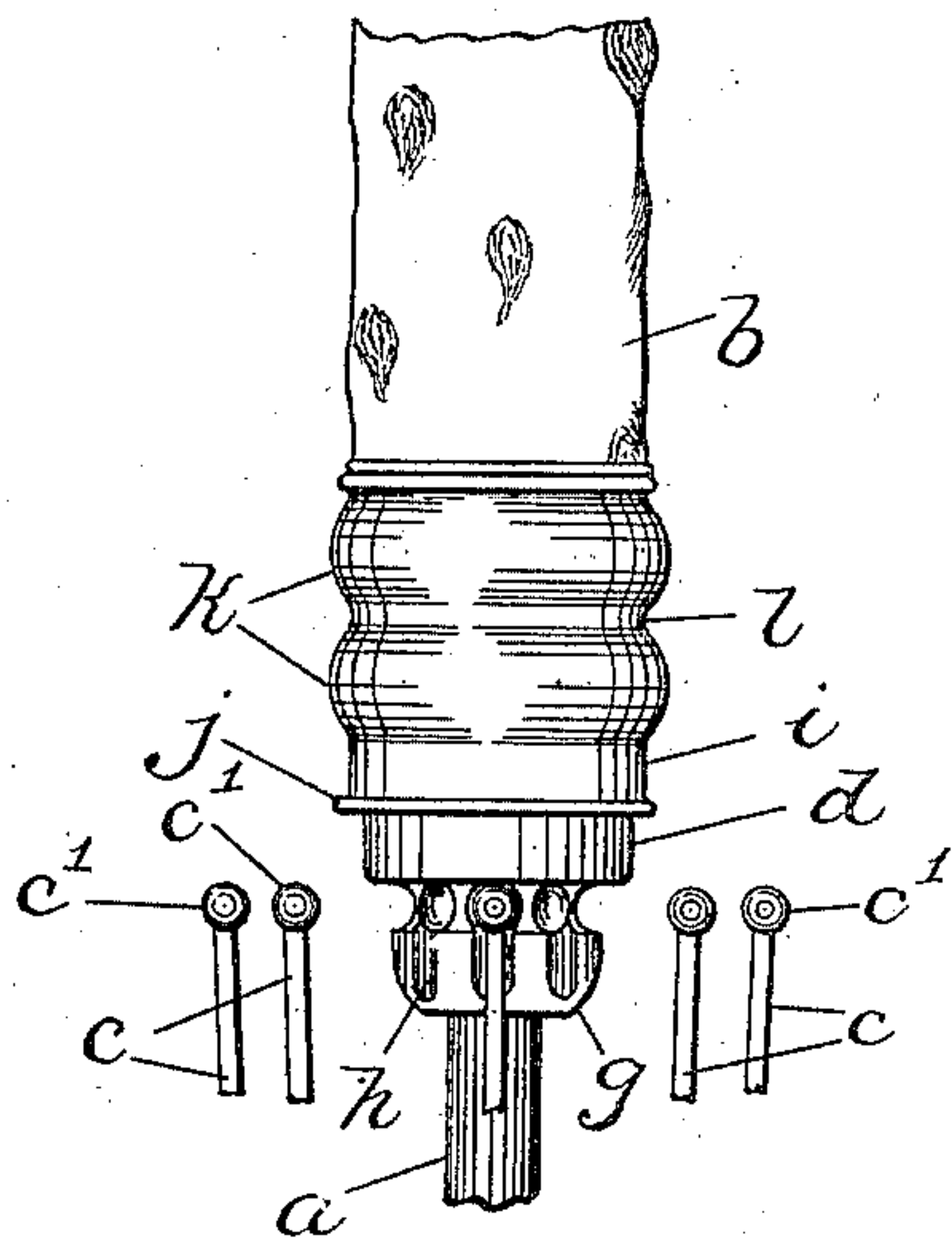


Fig. 2.

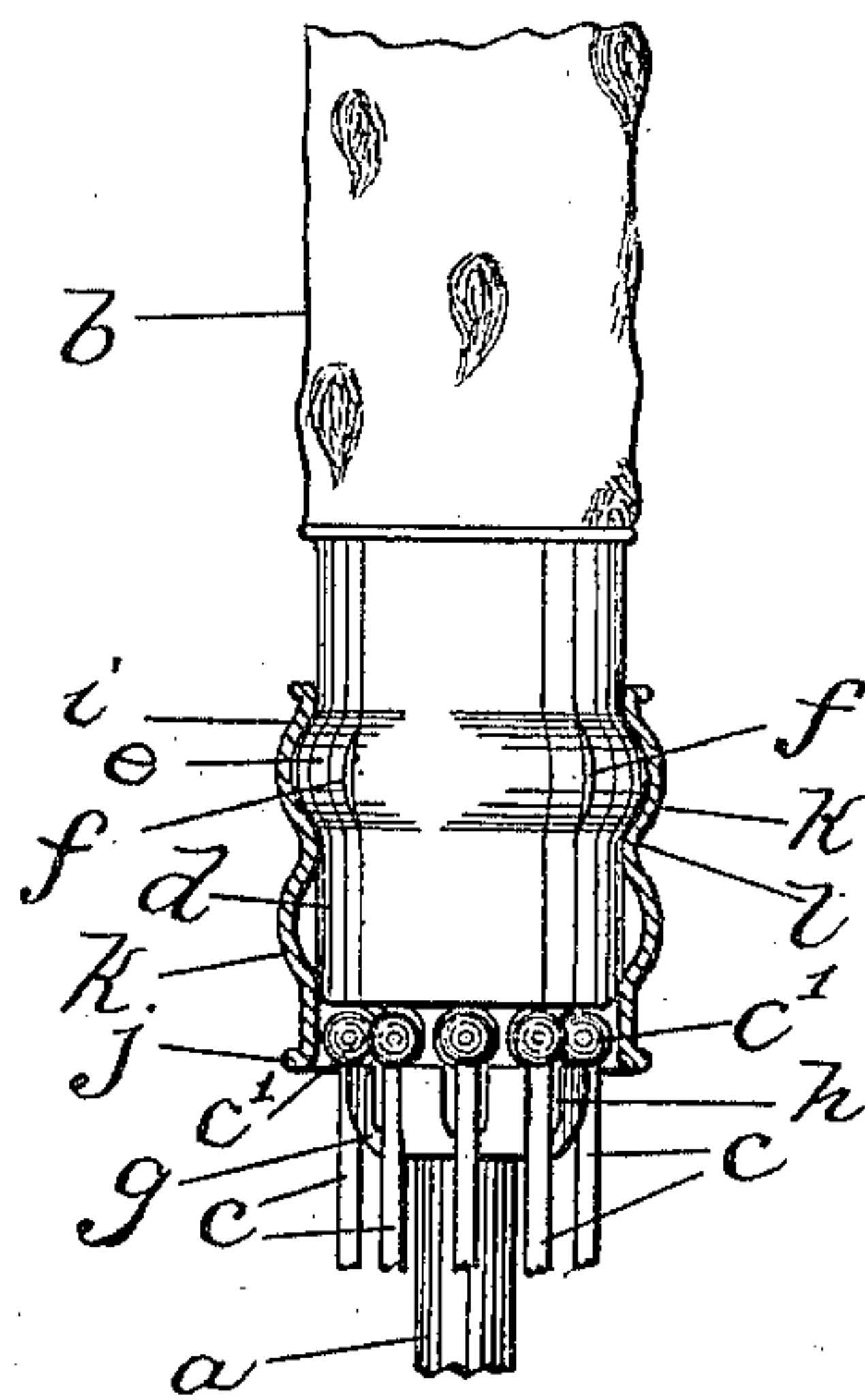


Fig. 3.

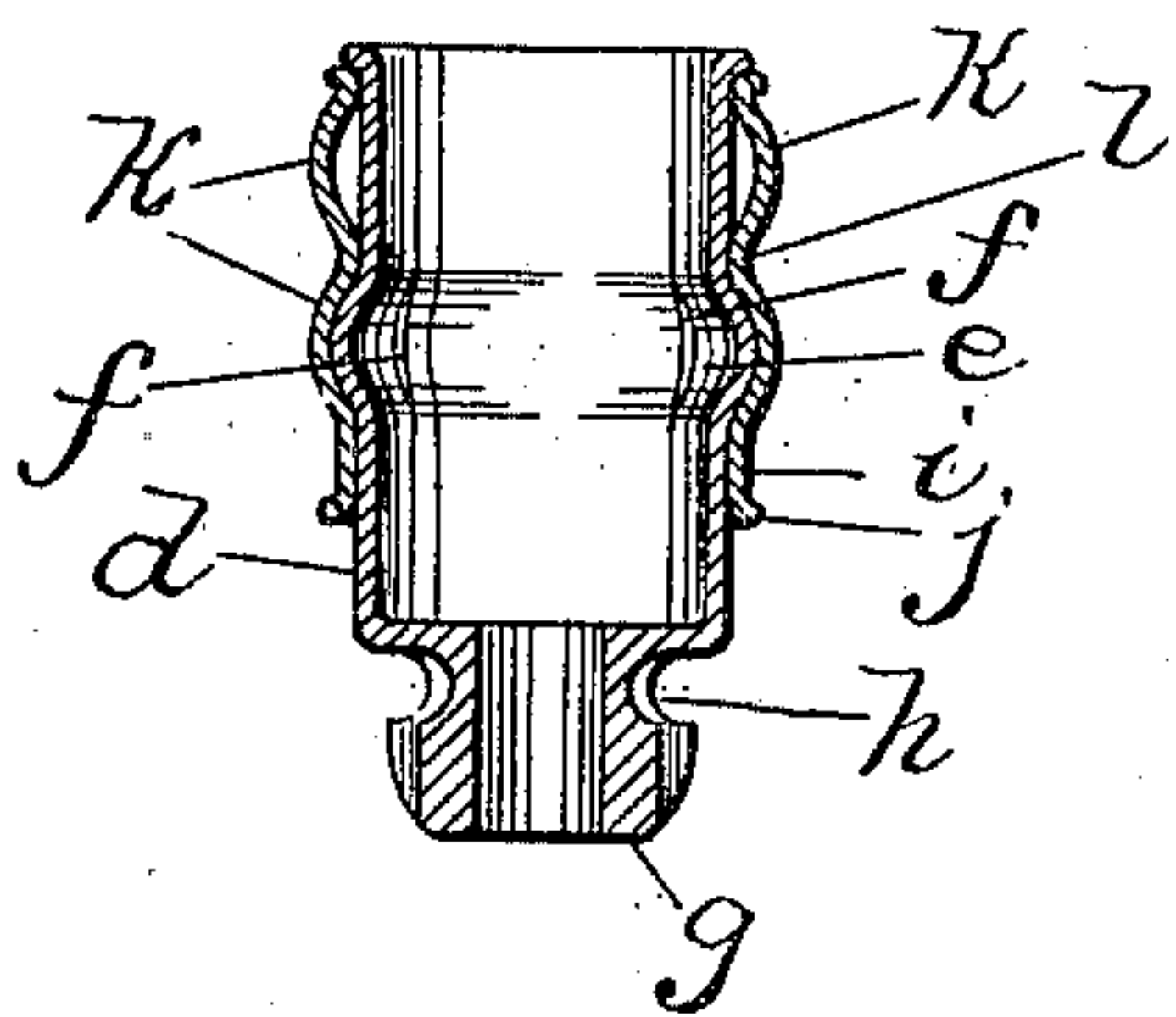
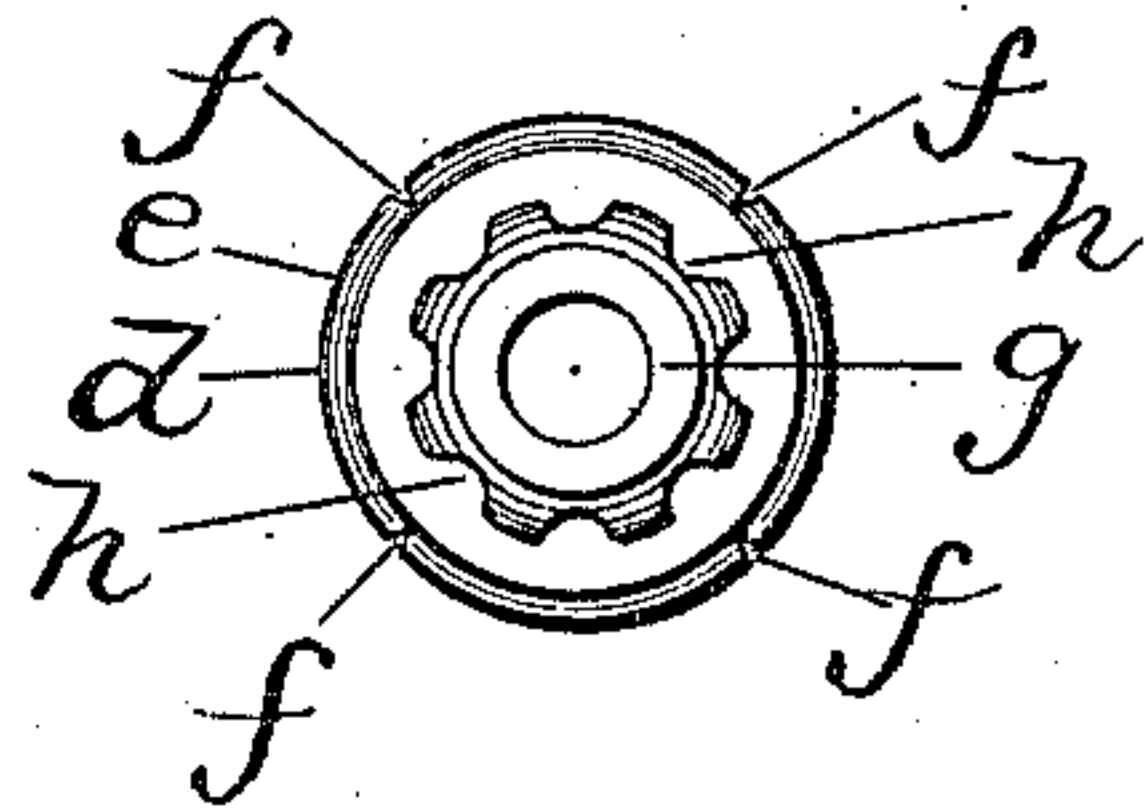


Fig. 4.



Witnesses.
H. F. Meyer, Jr.
J. S. Stitt.

Inventor.
Ulysses G. Fry
By Chas. B. Mann
Attorney.

UNITED STATES PATENT OFFICE.

ULYSSES G. FRY, OF BALTIMORE, MARYLAND.

UMBRELLA TIP-CUP.

SPECIFICATION forming part of Letters Patent No. 688,627, dated December 10, 1901.

Application filed July 19, 1901. Serial No. 68,893. (No model.)

To all whom it may concern:

Be it known that I, ULYSSES G. FRY, a citizen of the United States, residing at Baltimore, State of Maryland, have invented certain new and useful Improvements in Rib-Tip Holders for Umbrellas, of which the following is a specification.

This invention is an improvement in rib-tip holders for umbrellas; and its object is to provide an improved device of this character which will be easy to manipulate and sure in operation and which will securely hold each rib against the umbrella-rod independent of the other ribs, whereby to prevent the ribs from twisting when the cloth or covering of the umbrella is tightly rolled around the rod, and thus avoiding the necessity of grasping the rib-tips by hand when the umbrella is being rolled.

The invention consists in certain constructions and arrangements of the parts herein-after fully described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of the handle portion of an umbrella provided with my improved rib-tip-holding device, the ribs being shown in the released position. Fig. 2 is a similar view with the locking-sleeve in section and in the down position, showing the rib-tips held by said sleeve. Fig. 3 is a vertical section taken through the entire device, which is shown detached from the umbrella. Fig. 4 is a detail bottom plan view of the inner section or thimble of the holding device.

Referring to the drawings, the letter *a* designates the stick or rod of an umbrella, *b* the handle, secured on said rod, and *c* the ribs, provided at their tips with the usual knobs *c'*.

My improved holder comprises a thimble *d*, rigidly secured around the lower end of the handle *b* and provided with a transverse circular exterior bead *e*, in which are formed one or more slits *f* to impart a spring or yielding action to the said bead, and the said thimble is also provided at its lower end with a reduced or relatively small extension *g*, fitted around the upper end of the rod *a*. This extension is provided on its exterior with notches *h*, equal in number to the number of ribs *c* and of such a shape that the upper ends of the ribs, with their knobs, can fit snugly there-

in—that is, each notch comprises a vertical or longitudinal groove opening at its upper end into an approximately semispherical hollow or depression, as indicated in the drawings.

Mounted to slide up and down on the cylindrical upper portion of the thimble *d* is a locking-sleeve *i*, provided with a slightly outwardly flared lower edge *j* and two transversely-extending exterior bulges *k*, one above the other and separated by a concave portion *l*, which fits snugly around the thimble. In Fig. 1 the said sleeve is shown in the up position to release the ribs, and its lowermost bulge *k* is coincident with and surrounding the bead *e* of the thimble.

To secure the ribs close around the rod *a*, the rib-tips are gathered and held together by hand, so that they each take in one of the grooves and depressions of the reduced lower end of the thimble. The sleeve *i* is then forced downwardly on the thimble until its lower edge *j* takes around the rib-tips and until its concave portion *l* passes the spring-bead *e*, whereupon the locking-sleeve *i* will be held in the down position, (shown in Fig. 2,) with its uppermost bulge *k* coincident with the bead *e* of the ferrule. The rib-tips will then be securely held in the notches.

It is to be understood that changes may be made in the shape and relative proportion of the parts, as well as changes in the details of construction, without departing from the scope of the invention. For instance, the notched portion of the thimble may be made a separate piece from the upper cylindrical portion of the same and may, if desired, be made integral with the umbrella-rod.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with an umbrella, of a rib-tip holder, comprising a thimble having one end fitting around the umbrella-rod and provided on the exterior of said end with semispherical depressions and longitudinal grooves opening into said depressions, the said grooves and depressions being adapted to receive the rib-tips and their knobs; and a locking-sleeve slidable on said thimble and adapted to take over said rib-tips, as and for the purpose set forth.

2. The combination with an umbrella, of a rib-tip holder comprising a thimble secured on the umbrella-handle, said thimble being provided with a slitted spring-bead, and a reduced lower end fitting around the rod and provided on its exterior with notches; and a locking-sleeve slidable up and down on said thimble and adapted to secure the rib-tips in said notches, the said sleeve being provided with bulges adapted to coincide with said slitted bead whereby to hold the sleeve in either a raised or lowered position with respect to said thimble, as and for the purpose set forth.

3. The combination with an umbrella, of a rib-tip holder comprising a thimble, *d*, rigidly secured around the umbrella-handle and pro-

vided with a slitted bead, *e*, and a reduced or relatively small extension, *g*, fitted around the umbrella-rod, and said extension having on its exterior longitudinal grooves and semi-spherical depressions adapted to receive the rib-tips and their knobs; and a locking-sleeve, *i*, mounted to slide on said thimble and provided with two exterior bulges, *k*, and an outwardly-flared lower edge, *j*, as and for the purpose set forth.

In testimony whereof I affix my signature in the presence of two witnesses.

ULYSSES G. FRY.

Witnesses:

CHARLES L. VIETSCH,
H. F. MEYER, Jr.