T. G. HOJER.

UMBRELLA.

No. 192,119. Patented June 19, 1877.

Fig. 1.

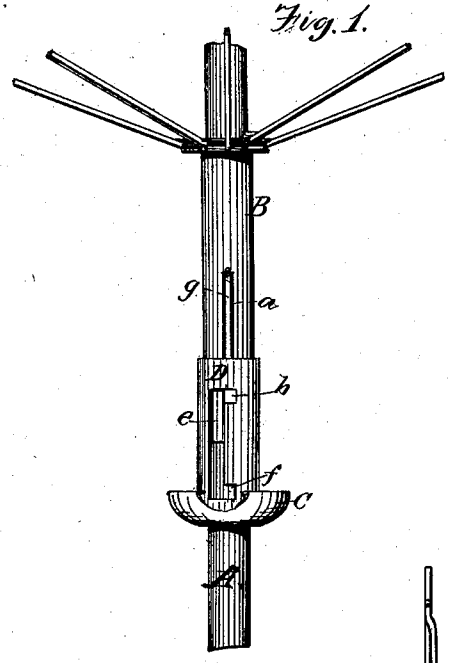


Fig. 2.

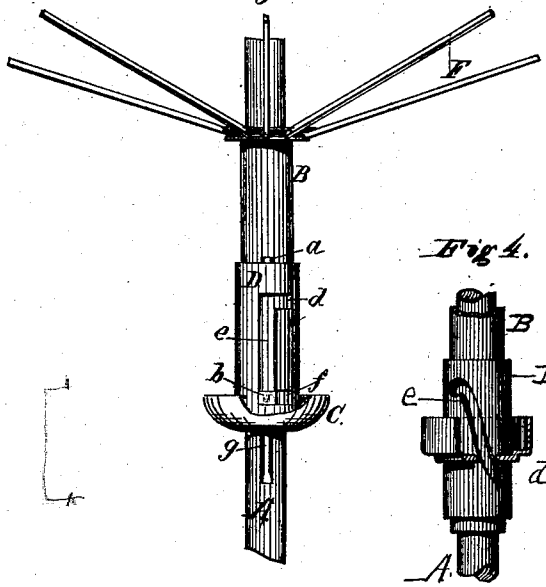
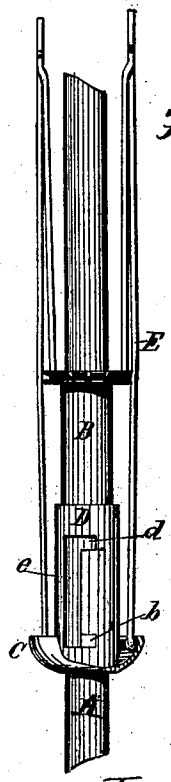


Fig. 4.

Fig. 3.



Witnesses;
Grenville Lewis
D. T. Howe

Inventor
Thomas G. Hojer,
By his Attorneys,
Stansbury & Munn

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C

UNITED STATES PATENT OFFICE.

THOMAS G. HOJER, OF NEW YORK, N. Y.

IMPROVEMENT IN UMBRELLAS.

Specification forming part of Letters Patent No. **192,119**, dated June 19, 1877; application filed December 21, 1876.

To all whom it may concern:

Be it known that I, THOMAS G. HOJER, of the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Umbrellas; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a plan view of the parts when the umbrella is open or raised. Fig. 2 is a plan view of the parts, showing the manner of releasing the supporting-spring when the umbrella is to be closed, and Fig. 3 is a plan view of the parts when the umbrella is closed, and the cap adjusted upon the tips of the ribs, and Fig. 4 is a plan view, with portions broken away to show a spiral or modified form of the slot in the sleeve.

The object of ny invention is to combine the tip-cup, having a slotted tube attached, with the runner provided with a lug, in such manner that the cup may be used to secure or release the tips of the ribs at pleasure, may also travel with the runner in opening the umbrella, and, by means of its sliding slotted tube attached, be used to release the spring that supports the runner when the umbrella is up or opened.

In the drawings, A represents the stick of an umbrella, E the ribs, and F the braces. In the stick, a supporting-spring, *g*, is inserted in the ordinary manner, and upon it, in the usual way, the runner B, with its braces F, is placed. At a short distance below the terminus of the slot *a* in the runner, and in line with it, a lug, *b*, is attached, as clearly shown in all the figures.

The cup C for securing and releasing the tips of the ribs is made in the usual manner, as shown. It has attached a tube, D, provided with a slot, *e*, having short slots *d* and *f* at either end, and running at right angles with it, as clearly shown in all the figures. The tube D is just large enough to slide freely upon the runner B and its slot *e*, of the requisite size to admit the lug *b* through it, so as to connect the two, as shown.

When the parts are thus constructed and arranged the operation is as follows:

Supposing the umbrella to be closed, the parts are in the position shown in Fig. 3—that is, the tip-cup is upon or over the tips of the ribs, and is held there by means of the lug *b*, which has entered the short slot *f*, as shown. To release the cup and raise the umbrella it is only necessary to turn it far enough to the right to release the lug *f*, then to draw it toward you until the lug reaches the upper end of the slot *e*, and turn it to the left, when the lug will engage with the short slot *d* at the upper end of the slot *e*, and then raise the umbrella by sliding the cap and runner together up the stick until the spring *g* projects through the slot *a* in the runner, as shown in Fig. 1.

To close the umbrella, turn the cup, with its tube, to the right till the lug is released, then push it forward, when the tube will compress the spring *g*, as shown in Fig. 2, and thus release the runner, when the umbrella may be closed, and the parts all be adjusted again, as shown in Fig. 3.

Instead of having the slot *e* in the form shown in Figs. 1, 2, and 3, it may be made in the spiral form shown in the sleeve D at *e* in Fig. 4, and the tip-cup, instead of being at the lower end, may be at or near the middle of the sleeve, as shown in the same figure. When the slot is made thus spiral in form a small lug, *d'*, is attached to the sleeve, to limit the sleeve in its movement, and also to hold it in position when moved up or down.

Having thus described my invention, what I claim is—

In combination with an umbrella-runner and an umbrella tip-cup fastener, a lug, *b*, attached to the former, and a slotted tube or sleeve, D, attached to the latter, constructed and arranged substantially as herein described, and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

THOMAS G. HOJER.

Witnesses:
CHAS. SCHAFFNER,
J. CHRIS. GOETZ.