

A. GOOD.
Umbrella-Runners.

No. 199,638.

Patented Jan. 29, 1878.

Fig. 1

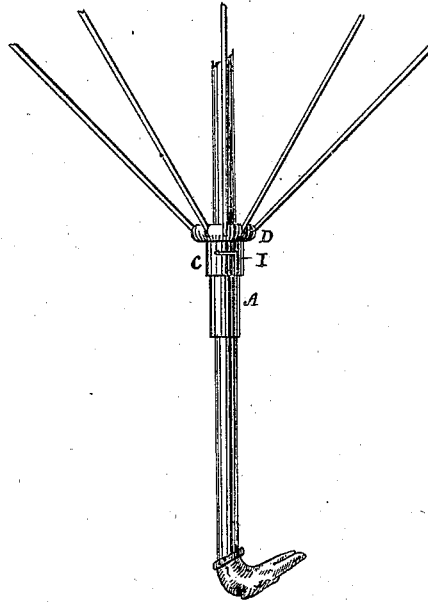
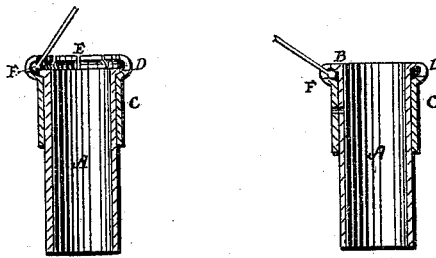


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN UMBRELLA-RUNNERS.

Specification forming part of Letters Patent No. **199,638**, dated January 29, 1878; application filed July 30, 1877.

To all whom it may concern:

Be it known that I, ADAM GOOD, of the city and county of San Francisco, and State of California, have invented an Improved Umbrella-Runner; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings.

My invention relates to a novel arrangement for securing the braces of an umbrella in the runner which moves on the handle, so that they can be readily detached therefrom and replaced when necessary.

Referring to the accompanying drawings, Figure 1 is a side view, and Fig. 2 sections, of the runner.

Let A represent the runner-tube, which moves on the umbrella-handle. The upper end of this tube I provide with an outward-projecting flange, B, as shown. C is a short tube, of larger diameter than the tube A, so that it can slip on over it from the lower end. The upper end of this tube is crimped, so as to form a semicircular bead, D, inside of which is a groove. The diameter of the upper edge of this bead is large enough to allow it to pass the flange B, while the lower part is small enough to be stopped by the flange. In this semicircular bead I make as many slots E as there are braces to be attached. The lower end of each brace is flattened in one direction, and has a round or other shaped head, F, on its extremity.

When the outside tube C is pushed upward on the runner-tube A, the upper rim of the bead D is carried above the flange B, so as to allow the heads of the braces to be inserted in the groove, while the flattened shanks enter the slots. When all the braces have been placed in position, I draw the short tube downward until the upper edge of the bead is op-

posite the edge of the flange B, thus closing the ends of the slots, and preventing the shanks of the braces from coming out. I then secure the short tube in place by a set-screw or otherwise.

In the present instance I have represented a bayonet-lock, I, for securing the short tube. This device is very convenient; but any suitable fastening can be employed.

This runner can be cheaply manufactured, and is extremely convenient, because any person can remove the braces from the runner with very little trouble when the umbrella or braces are to be repaired, and replace them again when desired.

I am aware that it is not new to use the runner with outside tube to form a groove for the insertion of the fastening, as this construction is old; but in all these cases a semicircular groove was made on both the runner and the outside tube, while I make only a plain flange on my runner, and pass the semicircular groove of the outside tube entirely over and around it while placing the fastening in position. This construction materially lessens the cost of the article, and greatly facilitates the work.

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

The runner-tube A, with its flange B, in combination with the outside tube C; with its grooved bead D, slots E, and fastening I, substantially as and for the purpose described.

In witness whereof I have hereunto set my hand and seal.

ADAM GOOD. [L. S.]

Witnesses:

FRANK A. BROOKS,
WALTER C. BEATIE.