C. HARRISON.
Umbrella-Runners.

No. 196,010. Patented Oct. 9, 1877.

Fig. 1.

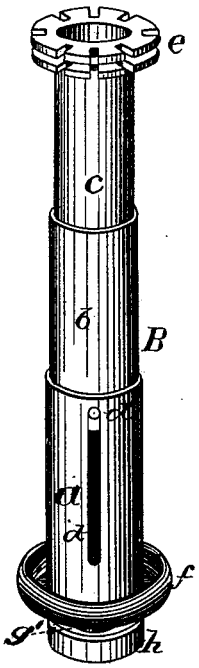


Fig. 2.

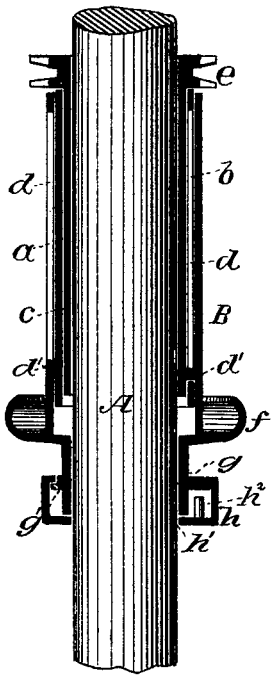


Fig. 4.

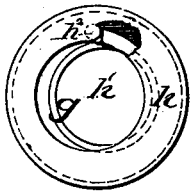
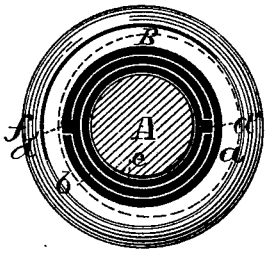


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHARLES HARRISON, OF SOUTHWARK, ENGLAND.

IMPROVEMENT IN UMBRELLA-RUNNERS.

Specification forming part of Letters Patent No. **196,010**, dated October 9, 1877; application filed July 3, 1875.

To all whom it may concern:

Be it known that I, CHARLES HARRISON, of Southwark, in the county of Surrey, England, have invented certain new and useful Improvements in Runners for Umbrellas, of which the following is a specification:

The object of my invention is the production of a telescopic runner for umbrellas carrying the tip-cup, and having simple and efficient means for holding such runner at any point; and it consists, mainly, in attaching to the lower tube of a telescopic runner an eccentric, which, when turned, binds against the umbrella-stick, and holds the runner securely at any desired point; and, further, in the combination, construction, and arrangement of the several parts composing my runner, as fully hereinafter explained.

In the drawings, Figure 1 is a perspective view of the extended runner; Fig. 2, a longitudinal section of the same; Fig. 3, a cross-section just above the tip-cup of the runner, with the tubes closed; Fig. 4, a separate view of the eccentric.

Like letters denote corresponding parts.

A represents the umbrella-stick, and B the telescopic runner. This runner is composed, preferably, of three concentric tubes, *a b c;* but it will be understood that two tubes can be used, or even more than three, if found desirable.

The tube *c* is made of such size as to slide closely within the tube *b*, while the tube *a* is still larger and moves over the tube *b*. These tubes are prevented from pulling apart, and kept in the same relative position axially, by any well-known devices. I prefer to slot the tubes for this purpose, and provide the adjacent tubes with studs or pins to work in such slots.

In the runner shown the tubes *a* and *b* have slots *d* extending nearly the entire length of the same, and pins *d'*, placed near the lower ends of the tubes *b* and *c*, project into these slots.

Instead of the slots and pins, a portion of the length of the several tubes may be bulged or enlarged horizontally, such parts, respectively, coinciding and passing over each other, and thus preventing the lengths from rotating independently.

To the upper or small tube *c* is secured or formed the notch-ring *e*, to which the stretchers are fastened, and to the lower or large tube *a*, near the bottom thereof, the tip-cup *f* is attached. The tube *a* is provided at its lower end with a collar, *g*, which is smaller than the tube, and slides closely upon the umbrella-stick. This collar is provided with an eccentric-head, *g'*, having a groove in its face, and over this head slides the ring *h* concentric to such head, but eccentric to the axis of the collar *g*. This ring *h* is provided with a hole, h^1, through which the stick passes, and this hole is concentric with the collar *g* in one position of the ring, but becomes eccentric as it is turned. A small pin, h^2, on the ring *h* works in the groove in the head *g'*, and limits the movement of such ring.

The telescopic runner allows the tip-cup to be carried upon the same, and by having the eccentric device for securing such runner the tip-cup can be always held over the tips without regard to the exact length the tubes are extended, since it operates at any point.

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

1. The combination, with a telescopic runner, of an eccentric for fixing the runner at any desired point, substantially as described and shown.

2. The umbrella-runner described, consisting of the concentric tubes *a b c*, carrying the notch-ring *e* and tip-cup *f*, and the eccentric-ring *h*, all constructed and arranged substantially as described and shown.

CHARLES HARRISON.

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