(No Model.)

J. B. POWELL.

UMBRELLA RUNNER.

No. 288,485. Patented Nov. 13, 1883.

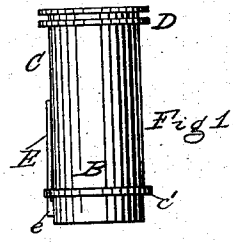


Fig 1.

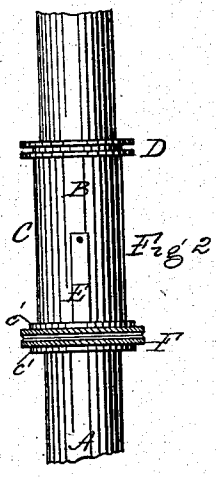


Fig 2.

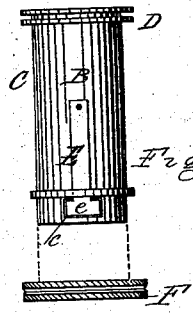


Fig 3.

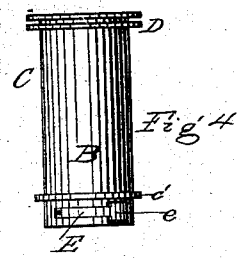


Fig 4.

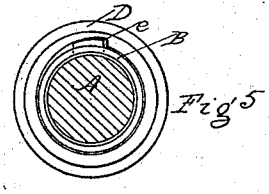


Fig 5.

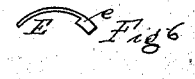


Fig 6.

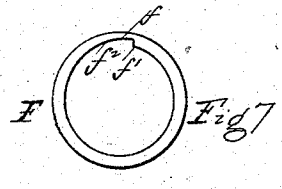


Fig 7.



Fig 9.

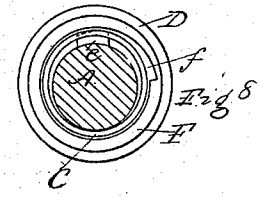


Fig 8.

Witnesses:

Wm. H. Powell.

Jos. B. Connolly

Inventor:

John B. Powell

By Connolly Bros.

Attys.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

JOHN B. POWELL, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO WILLIAM A. DROWN, OF SAME PLACE.

UMBRELLA-RUNNER.

SPECIFICATION forming part of Letters Patent No. 288,485, dated November 13, 1883.

Application filed June 7, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. POWELL, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Umbrella-Runners; and I do hereby declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a side elevation, Figs. 2, 3, and 4 front views, Figs. 5 and 8 are end views, and Figs. 6, 7, and 9 are details, of separate parts of my improvement.

My invention has for its object to provide an umbrella-runner which can be secured in any position on an umbrella-stick, and which operates without the aid of any pins, springs, or other catches in or on the stick, thereby avoiding a fruitful source of breakage and weakness in umbrella-sticks.

My invention consists of an umbrella-runner provided with a spring tongue or shoe and a rotating cam ring or collar adapted to bind or press said tongue or shoe against the umbrella-stick, and thereby hold said runner in any adjusted position on the latter.

Referring to the accompanying drawings, A indicates an umbrella-stick, which, for the purposes of my invention, may be devoid of any pin, kerf, spring, or equivalent device for arresting and detaining the umbrella-runner.

B indicates my newly-invented umbrella-runner, which consists of a tubular sleeve, C, and notch D, duly secured to one another in the usual or any suitable manner.

To the notch D the inner ends of the umbrella-stretchers are to be secured in the common or any equivalent way.

Near the lower end of the sleeve C is a transverse or segmental slot, *c*, in which is fitted a shoe, *e*, which is secured to the free end of a spring, E, whose other end is fastened to the sleeve C. The spring E is external to or on the outside of the sleeve C, but outward pressure on its lower end will force the shoe *e* inwardly, so as to project internally into the cavity or longitudinal bore of the sleeve and bind against the stick A, which occupies such cavity. To produce such pressure, and also to maintain it constant as long as may be desired, I provide the sleeve with an annular sliding or swiveled collar or ring, F. The opening of said ring is perfectly cylindrical for the greater part of its circumference, but is rendered irregular or cam-like by means of a notch, *f*, which terminates at one of its extremities in an abrupt shoulder, *f'*, and at the other in a bevel or incline, f^2. The ring F surrounds the sleeve C, and the shoe *e* fits in the opening or notch *f*. In this position of the parts the runner may be freely slid along the stick A. To fasten said runner in any desired position which it may occupy—as, for example, that which it should have when the umbrella is opened—the ring F is partially rotated on the sleeve, causing the bevel f^2 to ride upon and press the shoe inwardly, thus producing a clamp which holds the runner fast on the stick. To relieve said pressure, in order to slide the runner, the rotation of the ring is reversed until the shoe *e* and notch *f* coincide, when said shoe is thrown out by its spring E into said notch.

To maintain the ring F in position on the sleeve, yet allow it to be rotated on the latter, said sleeve is provided or formed with annular ribs *e' e'*, between which said ring swivels.

What I claim as my invention is—

1. The combination, with the sleeve or tube C of an umbrella-runner, of a spring-clamp, *e* E, and a cam-ring, F, for pressing the same inwardly and allowing it to move outwardly, substantially as shown and described.

2. The combination, with the sleeve or tube C of an umbrella-runner having a transverse or segmental slot, *c*, of a shoe, *e*, fitting in said slot and fastened to a spring, E, and a cam-ring, F, swiveled on said sleeve and operative with respect to said shoe, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 5th day of June, A. D. 1883.

JOHN B. POWELL.

Witnesses:
WM. H. POWELL,
ANDREW ZANE, Jr.