

S. WALES.

Umbrella-Runners.

No. 135,677.

Patented Feb. 11, 1873.

Fig. 1.

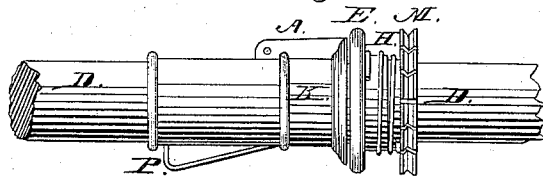


Fig. 2.

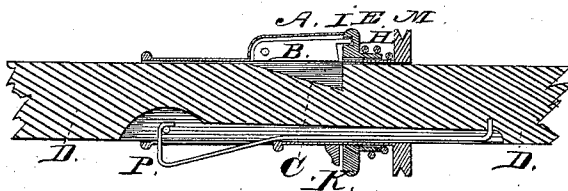


Fig. 3.

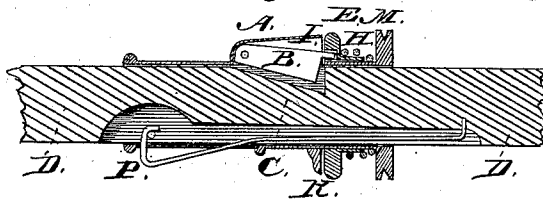


Fig. 5.

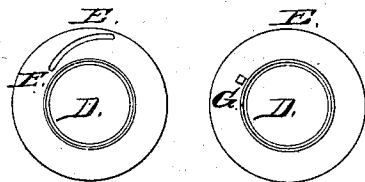
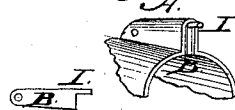


Fig. 4.



Witnesses.

Inventor.

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UNITED STATES PATENT OFFICE.

SIGOURNEY WALES, OF NEW YORK, N. Y.

IMPROVEMENT IN UMBRELLA-RUNNERS.

Specification forming part of Letters Patent No. 135,677, dated February 11, 1873.

To all whom it may concern:

Be it known that I, SIGOURNEY WALES, of the city, county, and State of New York, have invented an Improvement in Runners for Umbrellas, of which the following is a specification:

My invention is the construction of the runner of an umbrella with a concealed catch-bar passing through the runner and entering the stick by means of a slot therein; also, the revolving disk, with an eccentric slot or groove having an opening into which the tongue of the catch is forced, when locked, by the spiral spring placed between it and the collar to which the supports of the ribs are attached; the object of my invention being the locking or unlocking of the umbrella by the revolving disk, in connection with the eccentric slot and tongue of the catch.

No. 1 is the runner with concealed catch and disk. No. 2 is the runner with the catch thrown out of the slot or groove, and unlocked. No. 3 is the runner with the catch within the groove in the stick, and the umbrella locked. No. 4 is the catch and a sectional view, showing the manner in which it is concealed. No. 5 is the revolving disk, the eccentric slot, and the reverse of the same, showing the opening into which the tongue of the catch passes when locked.

A, the metal covering for concealing B, the catch; C, the groove, in D D, the stick; E, the revolving disk; F, the eccentric slot or groove; G, the stop; H, the spiral spring; I, the tongue of the catch; K, the collar which supports the disk E in position, and is secured

firmly to the main portion of the runner. M is the notched collar, to which the supports of the ribs are attached, and, like the wire-spring P, is common to all umbrellas.

The runner is unlocked by pressing E, the disk, away from K, the collar, toward M, the notched collar, releasing I, the tongue of the catch, from G, the stop, and permitting E, the disk, to be revolved, allowing I, the tongue of B, the catch, to rest within F, the eccentric slot or groove, and by it draws it out of C, the groove, in d d, the stick. The runner is locked in place, when the umbrella is closed, by the reverse of the above.

I claim as my invention—

1. The construction of the runner with A the catch or lever B having the tongue I, and E the revolving disk, substantially as and for the purpose hereinbefore set forth.

2. The combination, with the runner, of E the disk, having a longitudinal and revolving action, with H the spiral spring, substantially as and for the purpose hereinbefore set forth.

3. F, the eccentric slot or groove in E the disk, substantially as and for the purpose hereinbefore set forth.

4. The opening or stop G in the disk E, substantially as and for the purpose hereinbefore set forth.

5. The combination, with the runner, of B the catch or lever, substantially as and for the purpose hereinbefore set forth.

SIGOURNEY WALES.

Witnesses:

JAMES W. BUSSING,
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