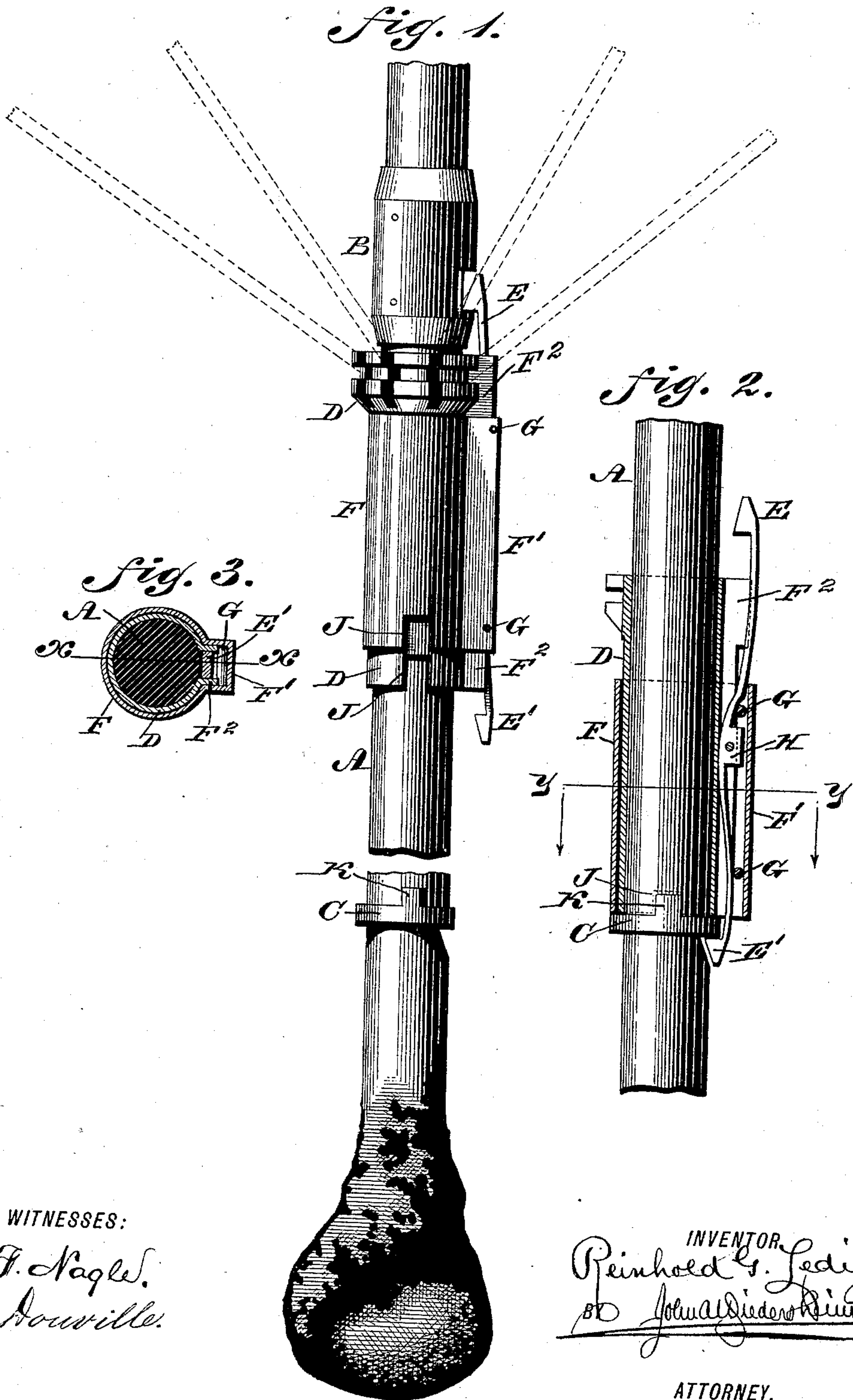


(No Model.)

R. G. LEDIG.
UMBRELLA OR PARASOL FASTENER.

No. 426,454.

Patented Apr. 29, 1890.



WITNESSES:

P. F. Nagle.
L. Bouville.

INVENTOR.
Reinhold G. Ledig
BY John A. Diederich

ATTORNEY.

UNITED STATES PATENT OFFICE.

REINHOLD G. LEDIG, OF PHILADELPHIA, PENNSYLVANIA.

UMBRELLA OR PARASOL FASTENER.

SPECIFICATION forming part of Letters Patent No. 426,454, dated April 29, 1890.

Application filed January 10, 1890. Serial No. 336,555. (No model.)

To all whom it may concern:

Be it known that I, REINHOLD G. LEDIG, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Umbrella and Parasol Fasteners, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of an umbrella or parasol fastener consisting of catches on the runner adapted to engage with collars or shoulders on the stick and a sleeve which encircles the runner, and is adapted to engage with said catches in such manner that as one catch is released the other catch is forced into engagement with the respective collar or shoulder.

Figure 1 represents a side elevation of an umbrella-fastener embodying my invention. Fig. 2 represents a longitudinal section thereof on line *xx*, Fig. 3. Fig. 3 represents a section on line *yy*, Fig. 2.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates the stick of an umbrella, the same being provided with collars B and C, which latter are located at places respectively adjacent to the position of the runner D in the open or closed condition of the umbrella.

E E' designate spring-catches, which are secured to the runner D, and project in opposite directions therefrom on the outside of the same, so that the upper catch may engage with the collar B and the lower catch may engage with the collar C.

Encircling the runner D and the catches E E' is a sleeve F, which is adapted to slide on said runner in the direction of the length thereof, and consequently over said catches. Secured to the sleeve F near the ends thereof are pins or cross-bars G, which are in contact with the backs of the catches, for the purpose of forcing the latter in the direction toward the stick, and consequently into locking engagement with the collar B or C, as the case may be.

The operation is as follows: The runner is shown in locked position, when the umbrella is opened, the head or nose of the catch engaging with a shoulder on the collar B. In

order to release the runner for closing the umbrella, the sleeve is drawn down, whereby the upper cross-bar G rides toward the heel end of the catch E, thus releasing the latter, 55 so that it springs out from the collar B, and the runner is no longer controlled by said collar. As the runner descends with the sleeve, the latter continues its sliding motion on the runner, and when the nose or head of the 60 catch E' passes the collar C the lower cross-bar presses in said catch and causes the interlocking of the catch E' and collar C, whereby the runner is controlled by said collar C. The catch remains in locked position by the action 65 of the cross-bar of the sleeve until the umbrella is again to be opened, when the sleeve is raised, and as it moves on the runner the lower catch E' is released, and as the sleeve and runner continue their ascent the catch 70 E is finally located adjacent to the collar B, when the upper cross-bar of the sleeve bears against said catch E and forces its head or nose into engagement with the collar B, thus again locking the runner and holding the 75 umbrella in open condition. The catches E E' are shown as connected at their heel ends with a block H, which latter is pivoted to the runner, thus allowing the greatest freedom of motion of the catches when pressed in by the 80 cross-bars or permitted to fly out when released of the same. In order to prevent turning of the runner and sleeve and guide the same in their longitudinal motions, there is formed in the end of the runner and sleeve 85 the recesses J, and the corresponding part of the collar or collars is provided with a lug or tooth K, which enters said recesses when the runner reaches the collar. The sleeve F has at its side the offset F', to receive the main 90 portions of the catches E E' and contain the cross-bars G, and the runner has at its ends the guides F², between which the catches are permitted to play in their inward and outward movements. 95

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

1. A runner having a double catch, and a sleeve which is movable on said runner, independent of the same, and operating to release one catch from the stick and engage the other 100

catch with said stick, substantially as described.

2. A runner provided with catches, and a sleeve which is movable on said runner and adapted to engage with one catch and be disengaged from the other catch, substantially as described.

3. A runner provided with catches adapted to alternately engage the stick, and a sleeve which is freely fitted on said runner and having motions independent thereof, so as to lock one catch with the stick and permit the other catch to be disengaged from said stick, substantially as described.

4. A runner with catches and a sliding sleeve fitted thereover, in combination with the stick having a collar with a tooth which

is adapted to enter a recess in said runner, substantially as described.

5. A sliding sleeve encircling a runner and formed with an offset, in combination with spring-catches which are connected with the runner and engaged by said sleeve, so that one catch is locked to the stick while the other is released therefrom, substantially as described.

6. In an umbrella or parasol fastening, the catches E E', pivoted to the runner and engaged by cross-bars on an encircling sleeve, substantially as described.

REINHOLD G. LEDIG.

Witnesses:

JOHN A. WIEDERSHEIM,
WM. C. WIEDERSHEIM.