

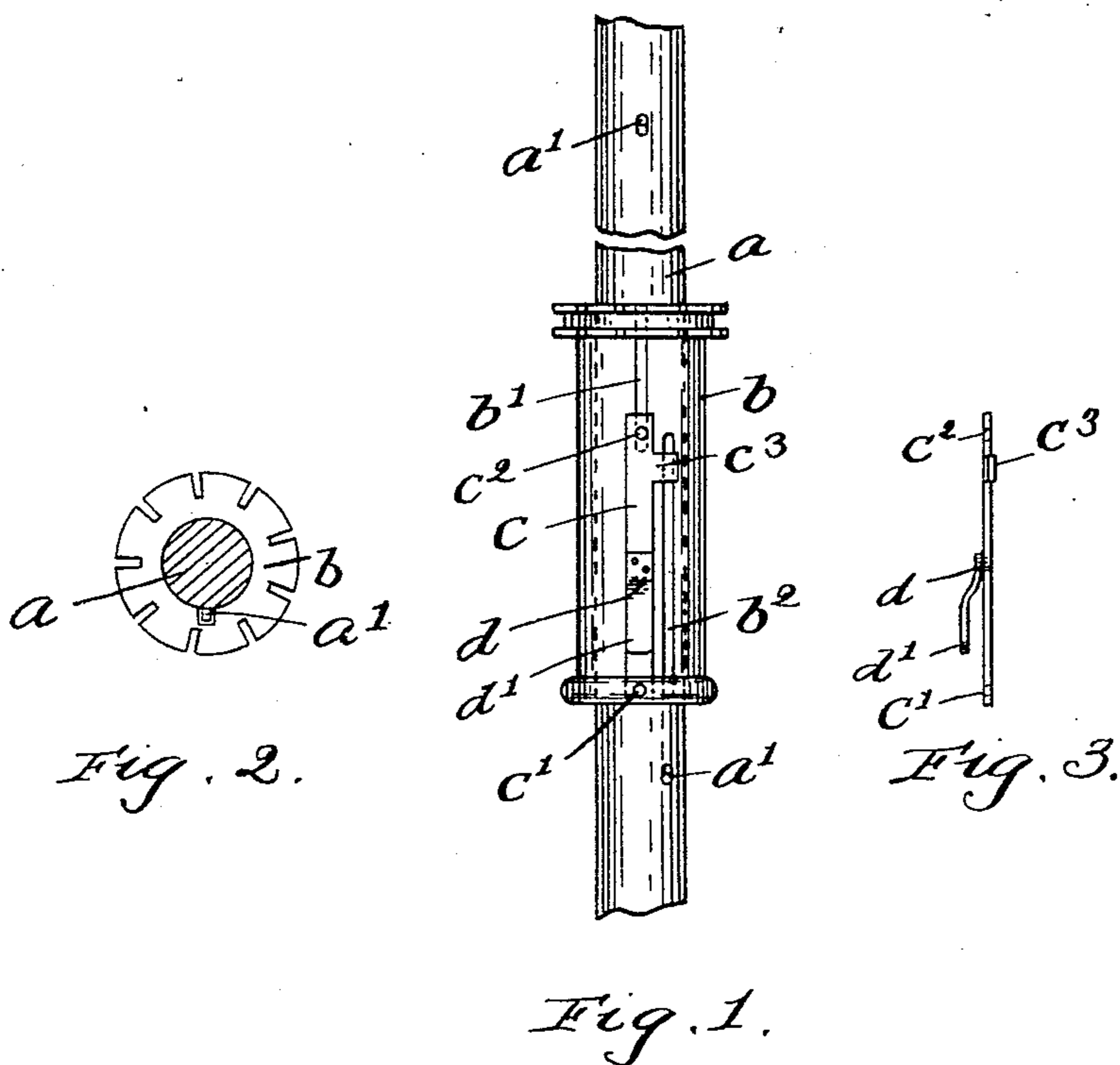
No. 711,061.

Patented Oct. 14, 1902.

W. P. MAXWELL.
UMBRELLA RUNNER RETAINER.

(Application filed Dec. 27, 1901.)

(No Model.)



Witnesses:
H. B. Davis,
M. C. Bill

Inventor:
William P. Maxwell
by B. J. Hayes
Atty.

UNITED STATES PATENT OFFICE.

WILLIAM P. MAXWELL, OF BOSTON, MASSACHUSETTS.

UMBRELLA-RUNNER RETAINER.

SPECIFICATION forming part of Letters Patent No. 711,061, dated October 14, 1902.

Application filed December 27, 1901. Serial No. 87,457. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM P. MAXWELL, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Umbrellas, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to umbrellas, and has for its object to improve the construction of the locking device in connection with the runner or sleeve, whereby a stick of small diameter may be employed, likewise a runner of small diameter, and no additional space required for the locking device, resulting in the production of an umbrella which when closed is of very small diameter.

The invention consists, essentially, in the combination of the stick, having at opposite ends a laterally-projecting pin, which may and preferably will be obliquely disposed, and a runner or sleeve having slots for said pins and bearing a pin-engaging device consisting of a flat spring-acting plate attached at one end to the runner or sleeve, having at its free or unattached end two detents overlying said slots, one for engaging the pin at the upper end of the stick and the other for engaging the pin at the lower end of the stick, and also bearing a short arm formed or provided with an outwardly-projecting portion adapted to be engaged and operated by pressure upon it to lift the detents out of engagement with the pins.

Figure 1 shows in side elevation a sufficient portion of an umbrella to illustrate this invention. Fig. 2 is a cross-section of the stick, showing the runner in plan view; and Fig. 3 is a detail of the pin-engaging device carried by the runner or sleeve.

a represents the stick, having at each end a laterally-projecting pin a' , and, as herein shown, said pins are disposed obliquely relative to the stick.

b represents the runner or sleeve, adapted to slide up and down on the stick. The runner or sleeve has two longitudinal grooves or slots b' b^2 extending inward from opposite ends thereof, one of them, as b' , being disposed to receive the pin a' at the top of the

stick and the other, as b^2 , being disposed to receive the pin a' at the bottom of the stick.

A pin-engaging device is carried by the runner or sleeve for engaging either one of the pins a' a' , and, as herein shown, said pin-engaging device consists of a flat plate c , attached at one end, as at c' , to the runner or sleeve and having two detents c^2 c^3 at its free or unattached end, one of said detents, as c^2 , being made as a hole formed in the end of the plate c at a point over the slot b' and the other, as c^3 , being made as a lateral extension of the plate and overlying the slot b^2 .

The detent c^2 engages the pin a' when the runner is slid up on the stick and said pin enters the slot b' , and the detent c^3 engages the other pin a' when the runner is slid down on the stick and said pin enters the slot b^2 . For the purpose of disengaging said detents from the pins a' a' a short arm d is borne by the plate c —as, for instance, it may be attached to said plate c —said arm having an outwardly-extended portion d' , and said arm is so constructed and arranged that by pressure upon its outwardly-extended portion the free or unattached end of the plate c will be lifted high enough for the detents to disengage the pins.

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

In an umbrella, the combination of the stick having a laterally-projecting pin at each end thereof, a runner or sleeve on said stick having longitudinal grooves or slots for said pins, and also having a pin-engaging device consisting of a plate attached at one end to said runner or sleeve and bearing two detents at its free or unattached end which overlie said grooves or slots, and an arm borne by said plate having an outwardly-projecting portion which when depressed lifts the free end of said arm bearing the detents, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM P. MAXWELL.

Witnesses:

B. J. NOYES,
H. B. DAVIS.