

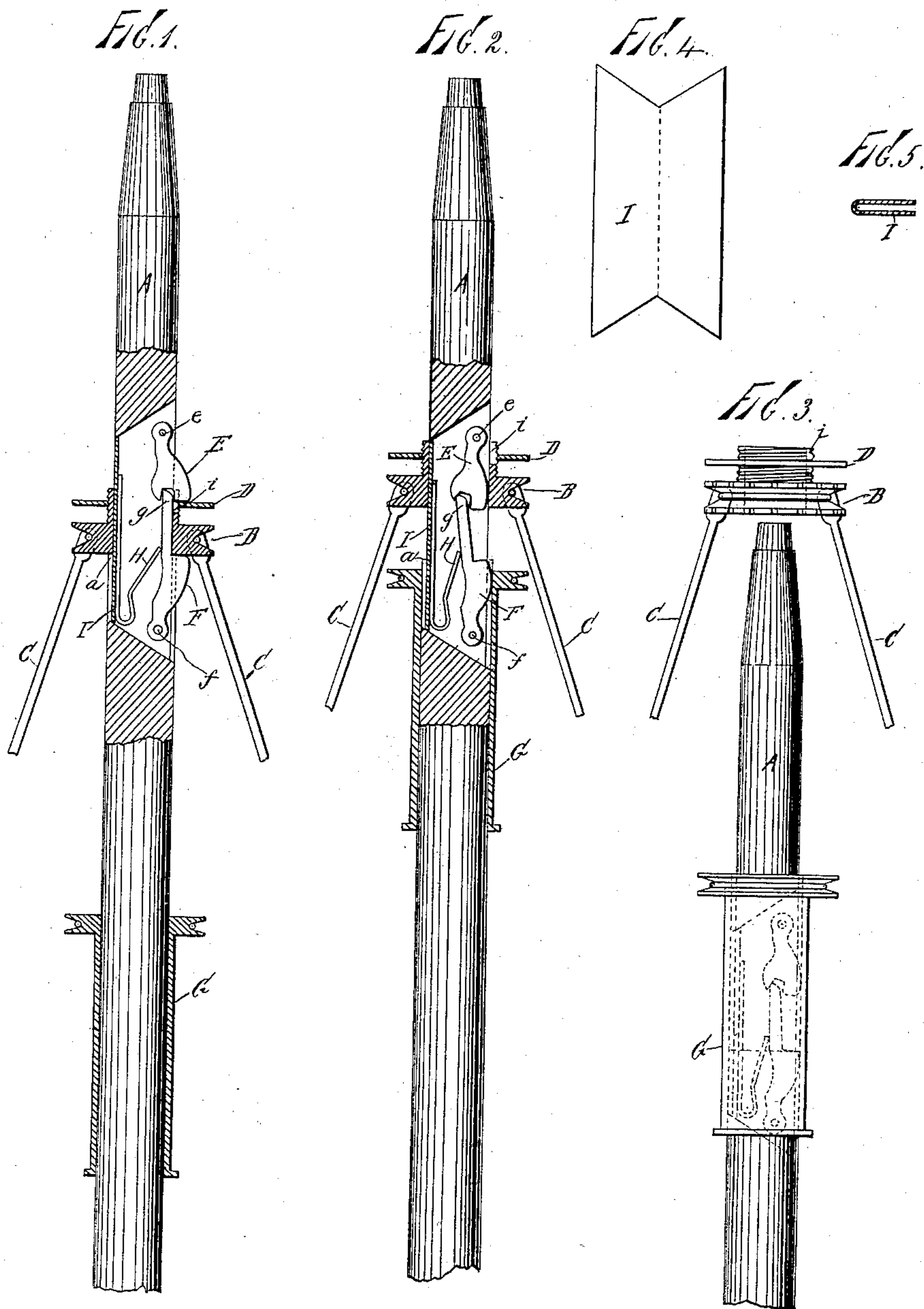
(No Model.)

J. D. NESBITT.

UMBRELLA.

No. 375,947.

Patented Jan. 3, 1888.



Witnesses:  
John Buckner,  
L. H. Osgood

John D. Nesbitt,  
Inventor:  
By North Osgood  
Attorney.



# UNITED STATES PATENT OFFICE.

JOHN D. NESBITT, OF NEW YORK, N. Y.

## UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 375,947, dated January 3, 1888.

Application filed March 10, 1887. Serial No. 230,347. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN D. NESBITT, of New York city, county and State of New York, have invented certain new and useful Improvements in Umbrella Attachments, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention has relation to attachments used in connection with umbrella-sticks, and particularly to that class of umbrellas in which the stick may be detached from the other parts, and includes the notch by which the canopy or cover and the ribs are removably mounted upon the stick, and spring-actuated detents, of peculiar construction and arrangement, for holding the notch in place or permitting it to be removed.

The objects of my invention are to provide a notch which may be easily adjusted on the stick or removed therefrom, and which is supplied with a recess for admitting one of the detents, by which it is held from turning on the stick or being accidentally removed therefrom, and to provide a simple and convenient form of detent easily applied to the stick, in which both parts shall be simultaneously operative, which may be operated by the umbrella-runner, and which will properly hold the notch in place until depressed, the detent and spring being mounted in a flat metal casing to facilitate mounting or assembling and the application of the whole to the stick.

To accomplish these objects, my improvements involve certain new and useful peculiarities of construction and relative arrangements or combinations of parts, as will be herein first fully described, and then pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a sectional elevation showing the end of an umbrella stick with my improved devices applied, the top notch being represented in its locked position. Fig. 2 is a similar view showing the runner moved up so as to depress the detent within its casing in the stick, and the notch moved up over the detent. Fig. 3 is a view in elevation showing the runner advanced over the detent and the notch off the stick. Fig. 4 is

a plan of the blank used to form the casing for the detent, and Fig. 5 a cross-section of the casing formed of the blank, Fig. 4.

In all these figures like letters of reference, wherever they occur, indicate corresponding parts.

I have not deemed it necessary to show the cover or canopy or the braces by which the ribs are connected with the runner, these being of any of the ordinary forms.

A represents the umbrella-stick, which it may be desired to disconnect or detach from the other parts of the umbrella, so that the stick may be used for a cane or for other purposes, or so that the cover or canopy may be folded or packed separately from the stick, or so that another stick may be inserted in its place. The stick may be of any material, and jointed or not, as may be desired.

B is the piece or part called the "top notch," being notched to receive the ribs, two of which are represented at C C. In the form shown the notch is threaded, and receives an adjustable threaded covering-plate, D, which secures the cover or canopy in place upon the notch and protects and conceals the margin of the opening in the canopy, and which may be moved up or down so as to accurately fill the space between the two parts of the detent. The notch fits over the end of the stick, and is prevented from slipping down thereon by a narrow shoulder, as shown at *a*, or by other equivalent means, such as a stop provided for the purpose. After being placed upon the stick it is held against the shoulder or stop by a detent so arranged that it will prevent any accidental displacement, but may be purposely forced out of its holding position. The detent is composed of two parts, as E F, pivoted at their ends in a flat metal casing, as at *e* and *f*, the part E being slightly curved, so that the notch will ride down over it easily, forcing it into the casing, and the part F being also curved or inclined, so that the runner may ride upon it easily, forcing it into the casing.

G represents the runner, the same being calculated to receive the ends of the braces which connect directly or indirectly with the ribs. The parts E and F are to be so connected that when either part is depressed the other will follow with it, thus making the



movements of the two simultaneous. The connection is made by providing a recess in the end of the part E, which recess receives a tongue, *g*, on the end of the part F. Under this arrangement it is plain that if the part F be forced into the casing it will carry the part E with it, and that if the part E be forced in it will in like manner carry the part F with it. Within the casing is a spring, H, secured at one part of the casing and bearing at its free end upon the part F, and operating through F upon the part E. The purpose of this spring is to keep the two parts E and F normally in position extending beyond or outside of the casing and beyond the surface of the stick. The detent, with parts constructed and arranged as above described, being located in the stick, the runner is slipped over the detent, the part E being first depressed, carrying the part F with it, and holding the latter down until the runner passes the whole, when the detent reassumes its normal position under the force of the spring. Then the notch is slipped on, depressing the part E and being arrested by the shoulder or stop *a*. The notch is then turned or revolved (carrying the cover, ribs, and runner and connections with it) until a narrow slot or recess, *i*, in the notch arrives over the part E, when the latter springs out to the position shown in Fig. 1, locking the notch against the shoulder or stop and holding it against accidental movement in the direction of the length of the stick. It is prevented from revolving on the stick by reason of the part E entering the recess *i*. Because the detent must serve to prevent the notch revolving, it is necessary to make it as rigid as possible, and therefore I make it separate from the spring and pivot it, in the manner indicated, in a metallic casing calculated to withstand the side strains brought upon it, and thus prevent damage to the stick or a gradual enlargement of the slot therein, by which the notch would gradually lose the desired and necessary rigidity, as occurs when simple holding-springs are employed, after the manner of holding-springs now commonly used in connection with umbrella-runners. To detach the notch the runner is moved up upon the part F, as in Fig. 2. This forces the part E into the casing, so that the notch can be slipped over it, as shown. It is then detached, as in Fig. 3, the runner following it over both parts of the detent, as indicated. The con-

struction is such as to obviate the necessity of touching the detent with the hand or fingers in order to operate it either for adjustment or removal of the parts. The casing is made from a blank, I, Fig. 4, the parts of which are bent about the central line, as indicated in Fig. 5. The spring and the detents are mounted in this casing, and then the whole adjusted in a narrow slot cut for them in the stick, the pivots *e* and *f* serving to hold the sides of the casing against spreading. The back of the casing is closed, and one end of the spring is located in the angle, as shown, and may be secured by simply indenting the casing over it. The parts E and F are prevented from being forced too far out at the open face or front of the casing by simply pinching the margins of the walls together about midway between their ends, or over the tongue *g*.

When constructed and arranged substantially in accordance with the foregoing explanations, the improved attachments are well adapted to answer the purposes or objects of the invention as previously set forth.

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

1. The herein-described removable notch, adjustable upon the umbrella-stick as explained, and provided with a recess or slit for receiving the detent, and an adjustable covering-plate, substantially as and for the purposes set forth.

2. In combination with the notch having a recess or slot, as explained, the two-part detent pivoted in a casing and acted upon by a spring, substantially as shown and described.

3. The herein-described detent, composed of the two interlocking simultaneously-moving parts pivoted in the casing and acted upon by a spring, substantially as and for the purposes set forth.

4. The combination of the two-part detent, the open sided casing, the pivots, and the spring secured in the casing, substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of two witnesses.

JOHN D. NESBITT.

Witnesses:

JOHN BUCKLER,  
WORTH OSGOOD.