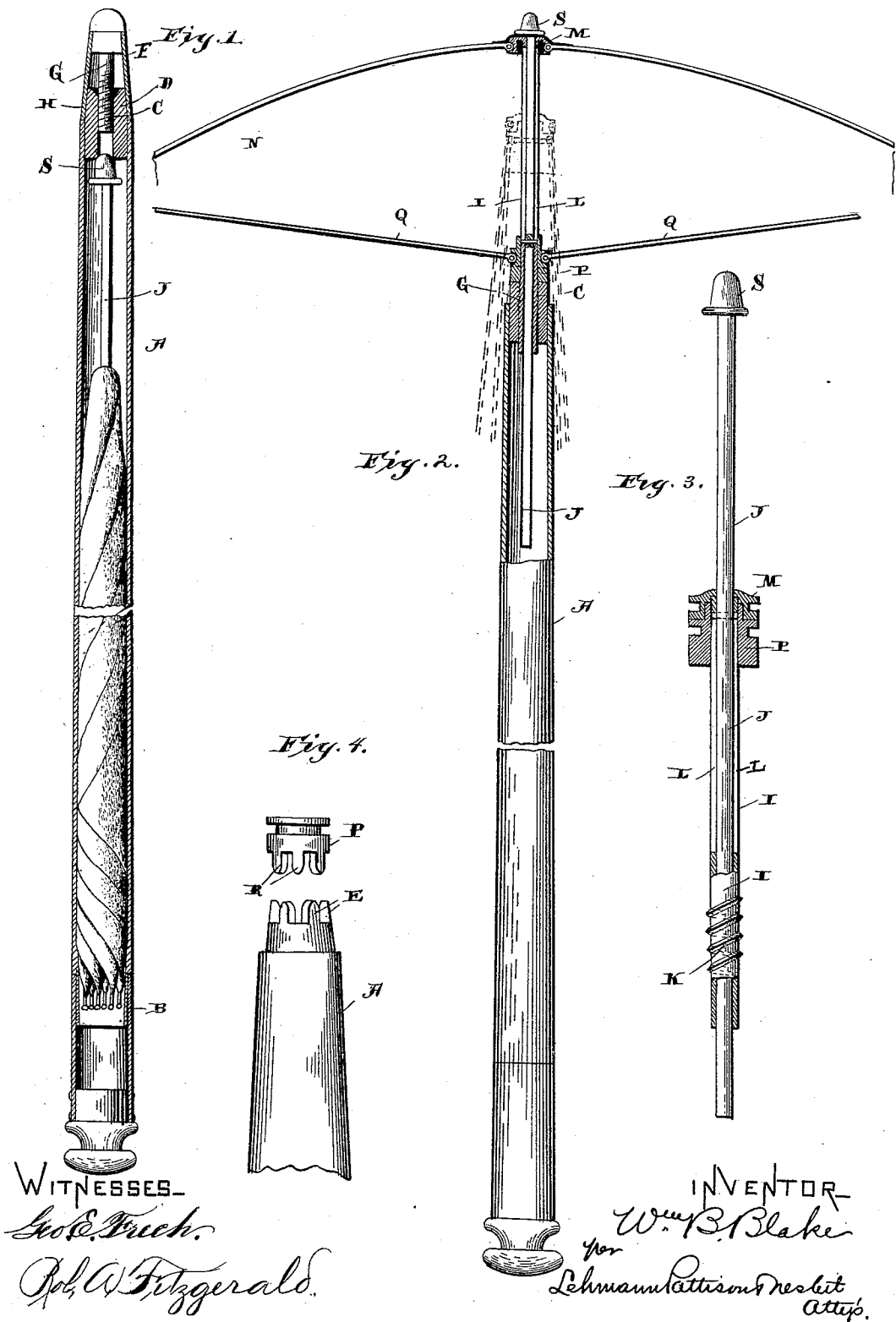


(No Model.)

W. B. BLAKE.  
COMBINED CANE AND UMBRELLA.

No. 500,051.

Patented June 20, 1893.



# UNITED STATES PATENT OFFICE.

WILLIAM B. BLAKE, OF BEDFORD, OHIO.

## COMBINED CANE AND UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 500,051, dated June 20, 1893.

Application filed September 10, 1892. Serial No. 445,579. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM B. BLAKE, of Bedford, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in a Combined Cane and Umbrella; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to improvements in combined canes and umbrellas, and it consists in the combination and arrangement of parts which will be fully described hereinafter and particularly referred to in the claims.

The primary object of my invention is to provide an umbrella with telescoping devices as hereinafter shown and described, which are capable of attachment to a hollow stick, and after attachment, to accomplish the spreading or raising of the umbrella by inverting it, placing the projecting portion of the telescoping device upon the floor, and pressing the handle down.

Another object of my invention is to have the relative position of the outer pivotal points of the ribs slightly above the stopping point or downward limit of the traveling runner head to which the inner ends of the ribs are attached, and to provide the said runner with a stop in conjunction with the end of the hollow cane or stick, to prevent it from having any turning movement, and whereby the tendency of the ribs is toward the stick, or down, which holds the umbrella raised, and firmly in position, as will appear farther on.

The object of my invention still further consists in the specific construction and arrangement of the parts, whereby a practical, simple and durable combined cane and umbrella is produced, all of which will receive special mention and description hereinafter.

In the accompanying drawings:—Figure 1 is a longitudinal sectional view of my invention, showing it inclosed within the hollow stick or cane. Fig. 2 is a similar view, the umbrella shown removed from within the stick, applied to the outer end thereof, and raised. Fig. 3 is an enlarged view of the telescoping devices which are attached to the

umbrella. Fig. 4 is a detail, in elevation, of means for preventing rotation of the runner.

A indicates a handle or stick which is made as shown, and of any desired material, as convenience, durability, and cheapness of construction may dictate. The handle end of this stick is provided with a slightly reduced portion B, over which the removable handle or large end thereof fits, and is easily removed therefrom. As here shown the handle is designed to fit the reduced portion thereof sufficiently tight to remain by frictional contact therewith, but if found desirable a suitable catch of any convenient form may be used for attaching the two parts firmly, but removably together. The opposite end of this hollow stick is provided with a screw threaded longitudinal opening C, which extends into and communicates with the interior hollow portion of the stick as illustrated. At this point, the outer surface of the stick is slightly reduced as shown at D, and the edge of this reduced portion is provided with a series of longitudinally extending projections E, the object of which will fully appear presently. A ferrule F, is provided with a centrally projecting externally screw-threaded stud G, which fits into the internally screw-threaded opening C, and the depending or surrounding flange H, of the ferrule fits around the reduced portion D, and makes a finish to the end of the cane in point of appearance.

The telescoping devices by means of which the umbrella is connected to the stick, and also by means of which the umbrella is both raised and lowered, consist of a tube I, and a rod J. This tube I has formed upon it externally near its inner end a raised screw threaded portion K, which fits in the screw threaded opening C, and screwed therein sufficiently far to carry the raised screw-threaded portion of the rod below the projections surrounding the opening C. As illustrated, this raised portion upon the tube I, is made a suitable distance from the lower end of the tube, in order that a reduced portion is formed outside thereof. The object of this particular construction is, that the said reduced portion will readily enter the opening C, and form a guide for the raised screw-threaded portion, whereby the parts can be screwed together without any trouble, or care to make the

threads register, as would be the case, if a guiding portion were not provided. Cut in opposite sides of the tube, are longitudinal slots L, which extend from the outer end of the screw threaded portion, to or nearly to the outer end of the tube, and connected rigidly to the outer end of the tube is a rib notch M, to which the inner ends of the ribs are pivoted, and over these ribs the covering N is placed in the usual manner. The rod J passes loosely through the tube I, and is connected between its ends to a runner P, that surrounds the tube I, by means of a pin which passes through the longitudinal slots of the tube. The object of connecting this runner so far from the inner end of the rod, is to have the rod extend into the stick whether the umbrella be raised or lowered, which makes the telescoping attachment much stronger, and the rod guided more positively and firmly in its movements, than would be the case if the rod were cut short at the point where the runner is connected thereto. Connected loosely at their inner ends to this runner are the stretchers Q, the outer ends of which are pivotally connected to the ribs of the umbrella in the ordinary manner. Formed upon the lower edge of this runner P, is a series of projections R, which are so placed in relation to the projections upon the end of the stick that they extend between each other and form a lock for the tube to prevent it from turning when the umbrella is raised, and thereby the umbrella also prevented from turning. This is essential, for otherwise the umbrella would be likely to turn, carrying with it the tube, and the tube thereby unscrewed from the stick.

By means of a simple lock for the runner and the end of the stick both the umbrella and the tube are locked against rotation, owing to the pin which passes through the runner and the said tube, and also through the sliding rod. Attached to the outer end of this rod is a cover or cap S, which when the umbrella is raised fits down over the upper runner head to which the ribs are pivoted, thereby covering the opening therein and preventing the entrance of rain. This cap is attached to the end of the rod in any desired manner.

While I show projections upon the adjacent ends of the stick and runner head for locking the umbrella against any turning movement, I desire it understood that I do not limit myself to this particular manner of accomplishing it, for it will be evident that many mechanical constructions could be devised for accomplishing this result, without departing from that part of my invention.

Having thus described the construction of my invention, I will now set forth the operation thereof. When it is desired to raise the umbrella, the handle is removed from the large end of the stick, and the umbrella removed therefrom. Next the ferrule is removed from the end of the stick, or this may be done before the removal of the handle if

desired, and the ferrule placed in the pocket. The tube is then screwed into the end of the stick. This having been done, it is only necessary to invert the umbrella, that is place the outer end of the rod against the floor, or if desired the umbrella can be held in a horizontal position, and the end of the rod held against a vertical object. Now by a pressure upon the stick toward the umbrella, the rod will be forced in as shown in Fig. 2, carrying with it the runner P. The inward movement of this runner head carries with it the inner ends of the stretchers, and thereby spreads the covering of the umbrella. As before described, the tube is of sufficient length so that when the rod is forced in, the runner P will be carried below or past the point of attachment of the stretchers to the ribs, so that the runner is forced down in contact with the end of the cane, and owing to the projections upon the adjacent edges of the runner and the cane, the runner and thereby the umbrella is prevented from having any turning movement in relation to the stick. This arrangement affords a means for locking the umbrella raised, and for holding it firm and steady, any pressure to collapse the umbrella only tending to force the runner P all the tighter against the end of the stick, and making the locking action more positive.

From the above description, it will be seen that I produce a very effective, practical and durable umbrella and cane, and one which can be readily and easily attached to the stick, or detached therefrom and placed in the hollow stick.

The greatest bulk of the umbrella when folded is at the outer ends of the ribs owing to the lapping of the goods and by having the stretchers fold upward instead of downward, the size of the folded umbrella is made uniform throughout and I am enabled to place the folded umbrella in a much smaller stick, than would be possible if the ribs folded down and added to the size of the longest part of the umbrella. This is an important feature in my invention, for it is especially desirable to have the stick as small as possible.

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

1. A combined cane and umbrella, comprising a hollow stick, a telescoping device composed of a stationary part adapted to be detachably connected with the stick, and carrying a rib notch, and a movable part carrying a runner to which the stretchers are attached, the said movable part carrying a locking device which engages the stick to prevent the telescoping device and thereby the umbrella frame from having any rotary movement, substantially as specified.

2. A combined cane and umbrella, comprising a hollow stick, a telescoping device comprising a stationary part adapted to be detachably connected to the stick and carrying a rib notch and a movable part carrying a

runner for the stretchers, the runner engaging the end of the stick when the umbrella is raised, the said runner and the end of the stick having engaging portions to prevent the runner having a rotary movement in relation to the stick, substantially as described.

3. A combined cane and umbrella comprising a hollow stick having an opening in its small end extending from the outside thereof inward and communicating with the interior of the hollow stick, a longitudinally slotted tube adapted to be detachably secured within said opening, a rod passing through said opening and extending into the stick a distance equal to the outward movement thereof for the purpose described, and projecting beyond the outer end of the tube, ribs attached thereto, a runner surrounding the tube and connected with the rod through the slot in the tube, and stretchers connected to the runner and to the ribs, all operating as described.

4. A combined cane and umbrella comprising a hollow stick having a longitudinal screw threaded opening in one end, a tube having a screw threaded portion and a smooth portion extending inward beyond the screw threaded portion for the purpose described, a rod moving within the tube and hollow stick, a rib notch attached to the outer end of the tube, a runner surrounding the tube, the latter having a longitudinal slot through which the runner is attached to the rod, the rod projecting beyond the outer end of the tube when the umbrella is closed, and stretchers connecting the runner and the ribs, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM B. BLAKE.

Witnesses:

ALLEN S. PATTISON,  
J. M. NESBIT.