

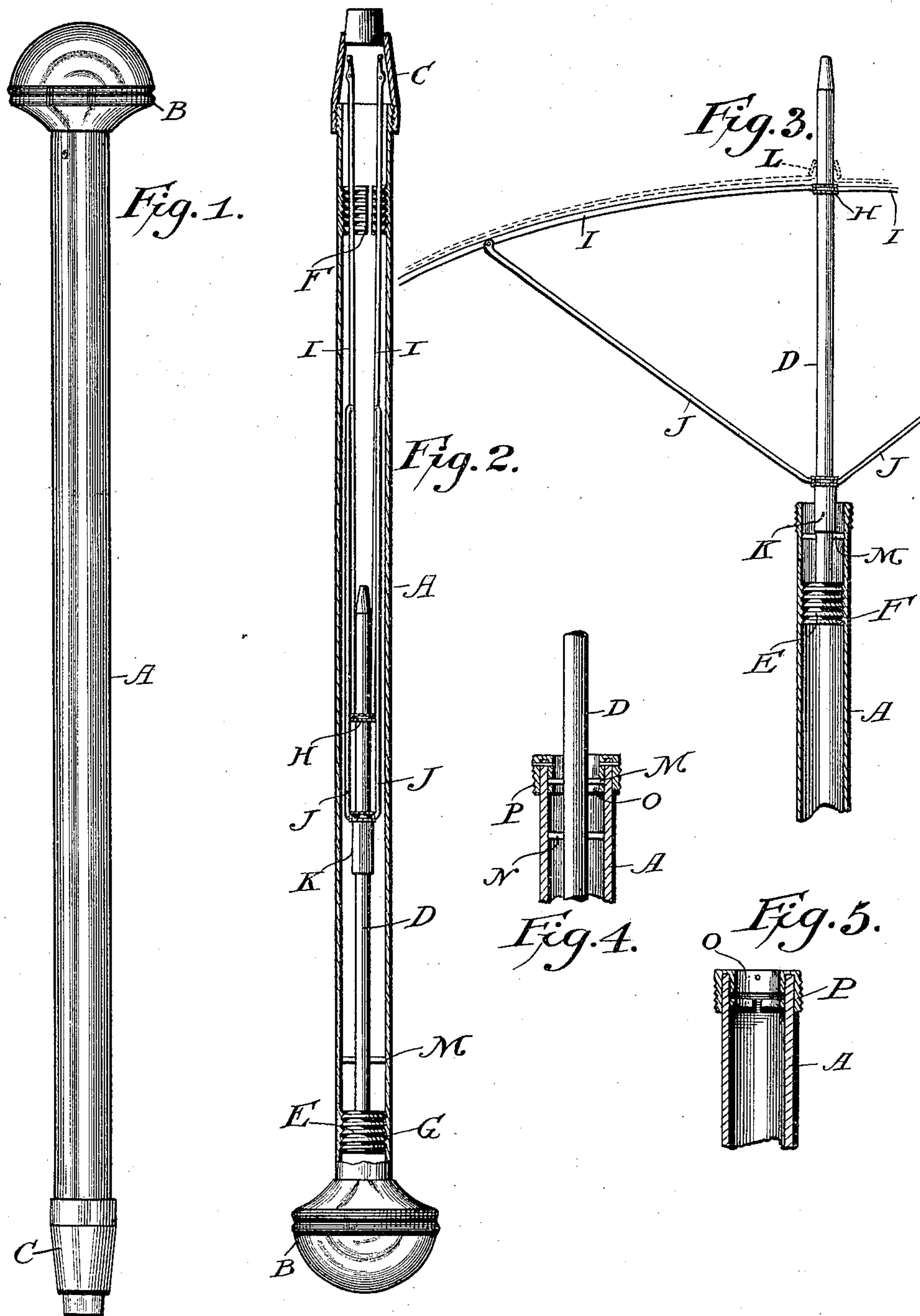
No. 629,460.

Patented July 25, 1899.

J. R. NAGELL.
COMBINED CANE AND UMBRELLA.

(Application filed Mar. 29, 1898.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN R. NAGELL, OF EVERETT, WASHINGTON.

COMBINED CANE AND UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 629,460, dated July 25, 1899.

Application filed March 29, 1898. Serial No. 675,597. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. NAGELL, a citizen of the United States, residing at Everett, county of Snohomish, and State of Washington, have invented a certain new and useful Improvement in a Combined Umbrella and Cane, of which the following is a specification.

My invention relates to a new and useful improvement in combined umbrellas and canes, and has for its object to provide an exceedingly simple and effective device of this description which when adjusted for use either as a cane or umbrella will be as serviceable for that particular purpose as though not having combined therewith the other features; and a further object of my invention is to afford ready means for carrying the umbrella, using the cane as a casing therefor, and yet permitting said umbrella to be quickly adjusted for active service.

With these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claim.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents my improvement when adjusted for use as a cane; Fig. 2, a central longitudinal section thereof, showing the umbrella folded and incased therein; Fig. 3, a view showing the umbrella adjusted to active position, a portion of the cane being sectioned away so as to illustrate the manner of holding the umbrella in this position; Fig. 4, a detail section of the end of the cane, showing a modified form of sustaining the umbrella portion of the device without the use of screw-threads; and Fig. 5 is a sectional view with the rod D removed.

In carrying out my invention as here embodied I provide a cane A, which may be made of any suitable material, such as hard wood or steel, the same being hollow and having permanently secured thereto the head or handle B. The end of this cane is screw-threaded for the reception of the internally-

threaded ferrule C, as clearly shown in Fig. 2. A short staff D is arranged to slide within the hollow cane and has formed upon its lower end an enlargement which is threaded, as indicated at E, and these threads are adapted to enter into engagement either with the screw-threads F, formed in the upper end of the cane, or with the screw-threads G, formed near the lower portion, the object of which is to secure this staff in the one position or the other, for the purpose hereinafter set forth. A crown H is secured to the staff and has pivoted thereto the ribs I in the usual manner, and these ribs have attached thereto the stay-ribs J, which are in turn pivoted to the runner K, the latter being adapted to slide upon the staff, as is well understood. The covering of the umbrella is attached to the staff slightly above the crown, as indicated at L, in order that when the umbrella is to be folded, so as to pass within the cane, it may be folded outward instead of inward, as is usual, and which will be hereinafter more clearly set forth. A cross-pin M is secured through the staff, its end slightly projecting therebeyond, so as to bear against the interior of the cane and add rigidity to the umbrella when the latter is adjusted for use. From this description it will be seen that when it is desired to use the combination as a cane the staff is passed within the interior thereof until the threaded enlargement E enters into engagement with the threads F, after which by revolving the staff upon its axis these threads will be so engaged as to firmly hold the staff in position, and the ferrule C may then be screwed upon the end of the cane, completing the storing of the umbrella, so that the cane may be used without reference to said umbrella. When the umbrella is to be adjusted for use, the ferrule C is removed and placed within the pocket, the ribs of the umbrella grasped and revolved, so as to disengage the threaded enlargement E from the threads F, and the ribs drawn upward until this threaded enlargement comes in contact with the threads, and by again revolving the staff these threads will enter into engagement with each other, after which it is only necessary to draw downward upon the runner K to bring the umbrella to the position shown in Fig. 3, where

it may be retained by any suitable latch or retainer entering into engagement with the runner.

It will be found in practice that such an umbrella will be as serviceable as though it were constructed only for such use, and yet when it is not needed it may be quickly returned to the interior of the cane, and thus stored for further use.

The modification shown in Fig. 4 contemplates dispensing with the threaded enlargement E, threads F, and threads G and in the place thereof securing a cross-pin N in the staff and permitting its ends to project sufficient to bear upon the inner walls of the cane and then utilizing the cross-pin M to hold the umbrella in its active adjustment, and this pin M in this case is adapted to enter into engagement with the ring O, which is secured upon the end of the cane, and preferably forming a part of the threaded section P, to which the ferrule is adapted to be attached, and this ring has an annular groove therein and two cross-grooves diametrically opposite each other, leading to said annular groove from the under side, so that when the staff is drawn upward the pin M passes through these cross-grooves until gaining access to the annular grooves, after which a quarter-turn of the staff will secure the pin in said annular groove and hold the umbrella as desired, a reverse movement being necessary to disen-

gage the pin M from the ring O, so as to return the umbrella to its folded position.

The cost of manufacturing a combined cane and umbrella in accordance with my improvement will be no greater if so great as the cost of making a separate cane and umbrella, at the same time giving to the user a most desirable combination, since a cane is seldom used when an umbrella is needed and an umbrella when a cane is needed.

Having thus fully described my invention, what I claim as new and useful is—

The herein-described umbrella, the same comprising a hollow cane, having two series of internal screw-threads, one at the handle end and one near the tip end, and a staff carrying the folding ribs of an umbrella and being provided at its lower extremity with an external screw-thread adapted to engage each of the series of internal threads in the cane as set forth, whereby in one operation the umbrella may be withdrawn into the cane or protruded therefrom and securely held in either position, without removal from the cane-body.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

JOHN R. NAGELL.

Witnesses:

BOYD J. TALLMAN,
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