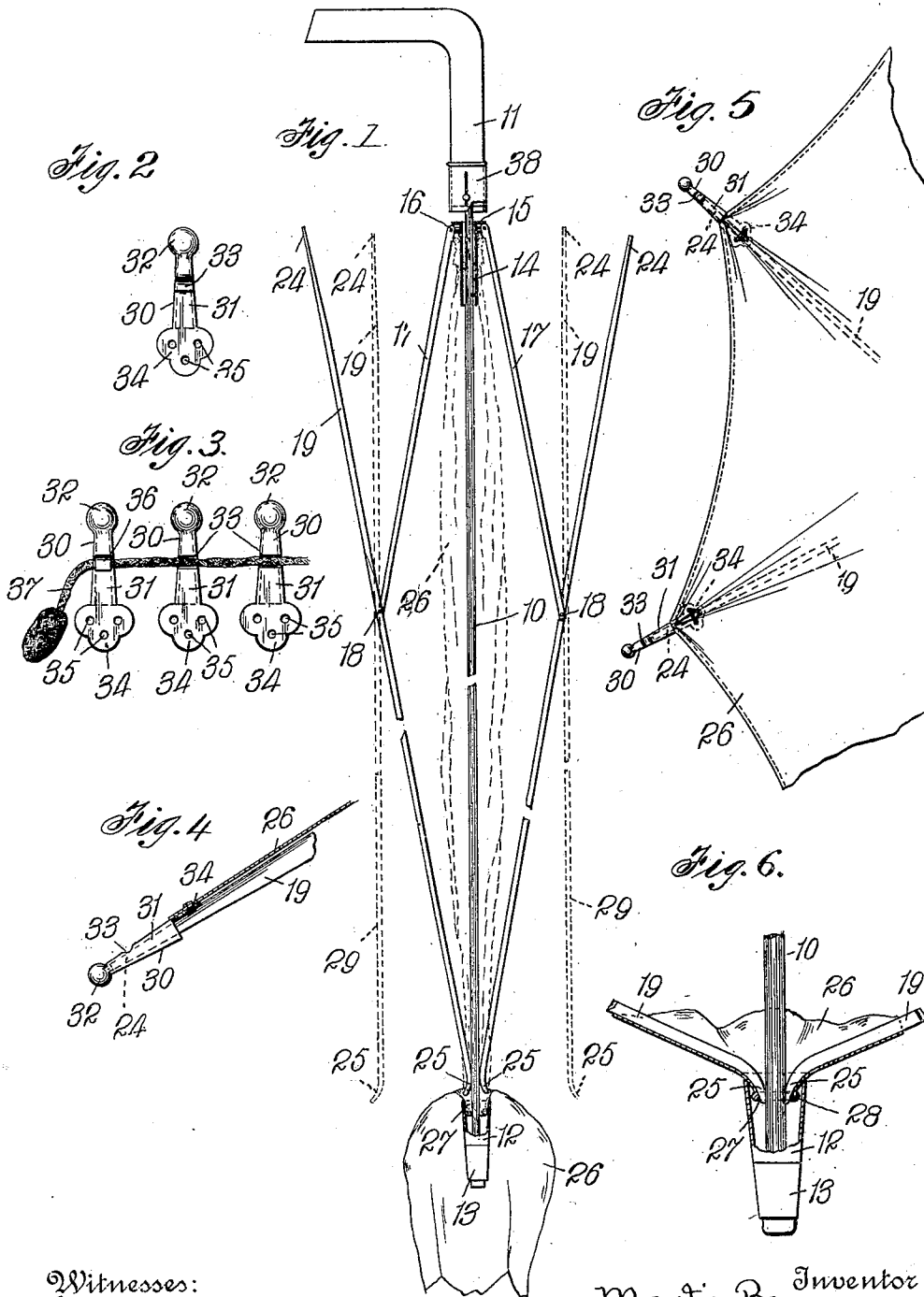


M. BEARMAN.
 CONVERTIBLE CANE UMBRELLA.
 APPLICATION FILED JUNE 22, 1910.

979,122.

Patented Dec. 20, 1910.

2 SHEETS—SHEET 1.



Witnesses:
 Charles C. Abbe
 H. L. Lyndall

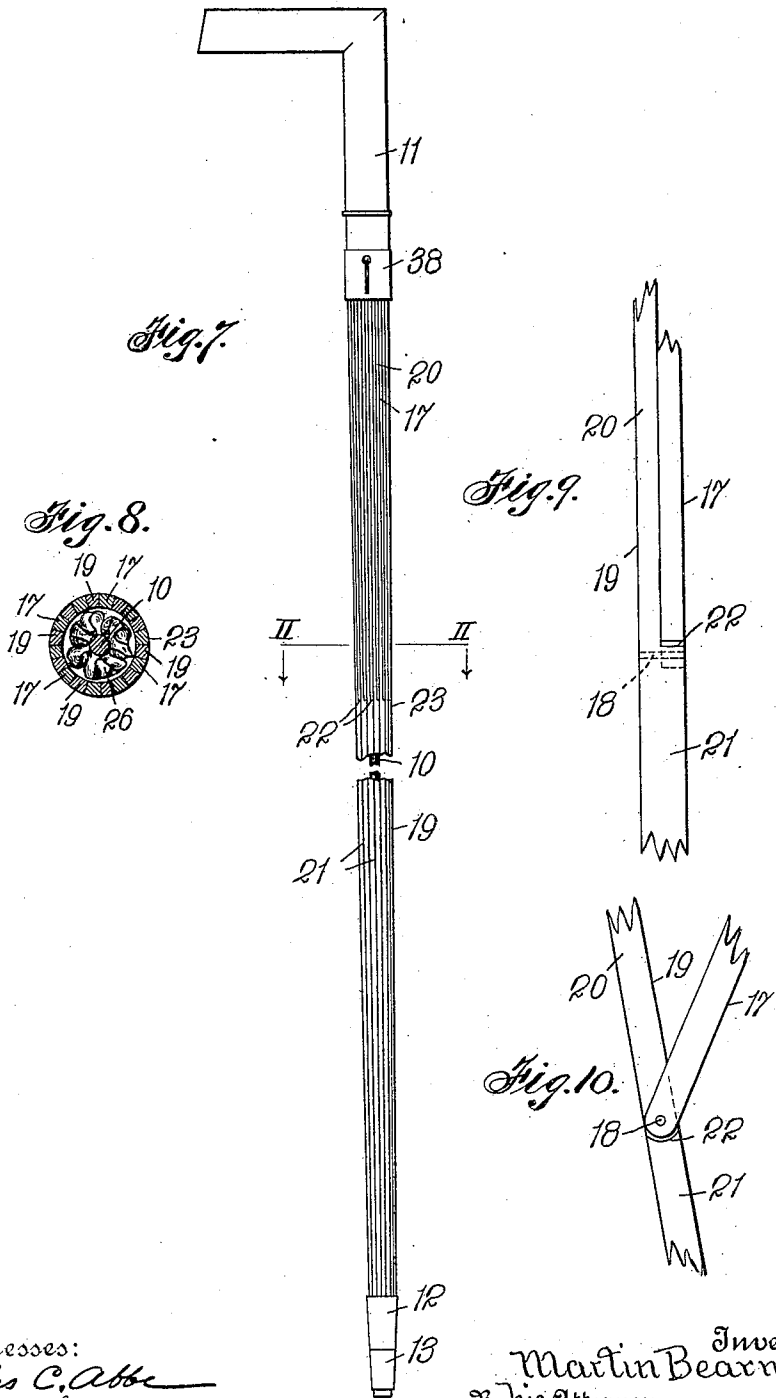
Inventor
 Martin Bearman
 By his Attorney
 W. T. Russell

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UNITED STATES PATENT OFFICE.

MARTIN BEARMAN, OF NEW YORK, N. Y.

CONVERTIBLE CANE-UMBRELLA.

979,122.

Specification of Letters Patent. Patented Dec. 20, 1910.

Application filed June 22, 1910. Serial No. 568,413.

To all whom it may concern:

Be it known that I, MARTIN BEARMAN, a citizen of the United States, and a resident of New York, county and State of New York, have invented certain new and useful Improvements in Convertible Cane-Umbrellas, of which the following is a full, clear, and exact specification.

This invention relates to a class of articles of manufacture wherein the usefulness of a cane and umbrella is provided for in combination.

The primary object of my invention is to provide an article of utility consisting of a cane which may be made in a compact form, very attractive in appearance and convenient for a person to carry, and which is so constructed that when occasion arises the cane may be readily converted into a durable and useful umbrella.

Another object of the invention is to provide a plurality of pivotally held ribs and rib-braces or stays formed so as to be collapsible and which when collapsed in assembled arrangement will form a tubular body for the cane around the runner-rod, and to provide means to so connect said stays upon the runner-rod as to be expansible in relation thereto.

Still another object of the invention is to provide a form of cover adapted to be slid upon the runner rod for retaining the cover within the tubular body when the device is used as a cane, and to provide for holding the cover at one end thereof so that it may be readily slipped over an end of the rod and then drawn over the ribs and rib-braces in converting the device from a cane to an umbrella.

A further object of the invention is to provide forms of tips adapted to be fastened to the cover and detachably fitted upon one end of each of the ribs in forming the umbrella, and to provide elastic or flexible means for holding said tips in an adjusted position to facilitate the fitting of the cover upon the ribs.

Furthermore, the invention consists of certain other novel features and parts as represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, the said invention being more fully described hereinafter and then pointed out in the appended claims.

In the drawing, Figure 1 is an elevation of one form of my invention showing the parts when in position to form an umbrella and also showing in dotted lines the position of the ribs when expanded. Fig. 2 is a side view of one of the tips. Fig. 3 is a view showing the arrangement of the tips held to a flexible adjusting means. Fig. 4 illustrates one of the tips fastened to the cover and fitted upon the end of one of the ribs. Fig. 5 is a fragmentary plan of part of the cover. Fig. 6 is a section, partly in elevation, of an end portion of the runner-rod and cap of the cane showing the position of the ribs and cover when held in said cap. Fig. 7 is an elevation, centrally broken away, showing the device when formed into a cane. Fig. 8 is a cross-section taken on the line II—II of Fig. 7. Fig. 9 is a fragmentary plan view, of one of the ribs and stays, showing the form and arrangement of the same, and Fig. 10 is a fragmentary side view showing a rib to which is pivotally held a stay.

Upon one end of the staff or runner-rod 10 is held a handle, as at 11, which may be of any desired shape and of an ornamental or plain design. Rigidly held on the opposite end of the staff 10 is a cap 12 one end of which is closed by a ferrule 13 of any suitable form and material.

Arranged so as to be slidable upon the staff 10 is provided a runner or sleeve 14 having an annular head 15, and to said head is pivoted, as at 16, in peripheral arrangement a plurality of stays or rib-braces 17. The opposite ends of the stays 17 are pivotally held, as at 18, to the ribs 19 substantially centrally thereof. As shown in Fig. 9, each of the ribs 19 has one end tapered and a curved opposite end and each rib is cut-away for a large part of its length approximately midway of the width thereof so as to provide an arm 20 and a body portion 21 having a shoulder, as 22, for the pivoted ends of the stay 17 to rest against. Each of the stays 17 is formed the same in width as the arm 20 of the rib 19 so that when said stays and ribs are moved in assembled arrangement to form the cane a tubular-shaped body 23 is provided. One end of each of the ribs 19 is tapered, as at 24, and the opposite ends of said ribs are outwardly curved, as at 25, so as to readily enter the cap 12 and rest snugly against the rod 10 in the cap 12. By this arrange-

ment as indicated in Fig. 6, it is clear that the peripheral edge of the wall at the open end of said cap will serve to properly hold the ribs in position when the umbrella is
5 open for use.

The umbrella cover 26 is preferably of the usual form and may be made of durable woven thin silk or other material adapted to be held around the rod 10 and in a
10 limited area of space, as indicated in Fig. 8, when the device is used as a cane. In the center of the cover 26 is an opening 27 provided with a ring, as 28, of any suitable material which may serve as a means to retain the cover closely fitted upon the curved
15 ends 25 of the ribs 19.

When it is desired to convert the device from a cane to an umbrella the stays 17 and ribs 19 are expanded, as shown in dotted
20 lines 29, Fig. 1. The cover 26 is then slipped over the rod 10 from the handle 11 in the direction of and over the cap 12. The curved ends 25 of the ribs 19 are grouped and passed into the open end of said cap 12
25 after which the cover 26 is drawn over the ribs 19 and stays 17.

As a means to detachably connect the cover 26 to the tapered end 24 of the ribs 19 I employ tips 30. Each of the tips 30
30 has a tapered tubular body 31, a ball-shaped end 32 and upon the outer surface of the body 31 is formed a groove or notch 33. Upon the open end of the body 31 is provided a plate 34 having openings 35 there-
35 through whereby each of the tips 30 is fastened to the cover 26 with stitches or other suitable means. Obviously the number of tips 30 used in conjunction with the cover
40 26 must correspond to the number of ribs 19, and when the cover is slid over the ribs 19 and stays 18, each tip 30 is fitted upon the tapered end 24 of the corresponding rib 19, as illustrated in Fig. 4.

Serving as a means to hold the tips 30 in
45 proper arrangement to be readily and conveniently adjusted upon the tapered ends 24 of the ribs 19 the body 31 of one of said tips is provided with an eye 36 through which is passed a cord 37 of flexible or
50 elastic material which is adapted to be directed around and engage the grooves or notches 33 of the remainder of the tips 30 upon the cover 26.

When it is desired to use the device as a
55 cane the various parts of the device are adjusted in their relative positions, the curved ends 25 of the ribs 19 being seated in the cap 12 and to hold the tapered ends 24 against displacement a slide 38 is arranged upon
60 the handle 11. By moving the slide 38 toward the rod 10 the tapered ends 24 of the ribs 19 will be capped thereby and to release said tapered ends from this engagement the slide 38 is moved in an opposite
65 direction upon the handle 11.

It is understood that changes may be made in the forms and proportions of the various parts of my convertible cane-umbrella and that any number of stays and ribs which I desire may be used therein without departing from the spirit and scope of the invention, therefore I do not wish to be limited to the particular form of device as herein illustrated and set forth.

Having thus described my invention, I
75 claim as new and desire to secure by Letters Patent:

1. In a convertible cane-umbrella, the combination of a runner-rod having a handle connected upon one end thereof; a cap held
80 upon the opposite end of the runner-rod; a plurality of ribs each having one end curved and a tapered opposite end, both ends of which are disconnected from the runner-rod; a stay pivotally held to each of the ribs;
85 means to pivotally hold the stays slidably upon the runner-rod; a detachable cover having a central opening provided with a ring to hold the cover around the runner-rod within the cap; and a number of tips
90 corresponding to the number of ribs, each of said tips having an apertured plate whereby the tip may be fastened to the cover and each having a tubular body for reception of the tapered end of each rib.

2. A cane in a device of the character described, the combination of a runner-rod having a handle connected upon one end thereof; a sleeve slidably held upon the
100 runner-rod and having a head; a plurality of ribs each having a cutaway part forming an arm and a body portion of twice the width of the arm; an equal number of stays, each of the same width as the arm of each rib and having one end pivotally held to
105 the arm; means to pivotally hold the opposite end of each of the stays to the head of said sleeve; a curved part formed upon the end of each rib; a cap to hold said curved parts and held upon the runner-rod at the
110 end opposite to said handle; and means provided upon the handle to hold the opposite ends of the ribs when in assembled arrangement around the rod.

3. In a convertible cane-umbrella, the
115 combination with a runner-rod and a sleeve slidably held thereon and having a head; of ribs, each having one end curved and a tapered opposite end, both ends of which are disconnected from the runner-rod, a cut-
120 away part forming an arm and a body portion of twice the width of the arm so as to form a shoulder thereon; an equal number of stays, each of the same width as the arm of each rib and having one end pivotally
125 held to the arm and the opposite end pivotally held to the head of said sleeve.

4. In a convertible cane-umbrella, the combination of a runner-rod having a handle
connected upon one end thereof; a cap held
130

upon the opposite end of the runner-rod; a sleeve slidably held upon the runner-rod and having a head; a plurality of ribs having an arm with a tapered end and a body
5 portion with a curved end and a shoulder; a stay of the same width as the arm of each rib and having one end thereof pivotally held to the arm so that the end of the stay will rest against said shoulder; means to
10 pivotally hold the opposite ends of the stay in an annular arrangement to the head of the slidable sleeve; a cover having a central opening provided with a ring to hold the cover around the runner-rod within said
15 cap; a number of tips corresponding to the

number of ribs, each of said tips having an apertured plate whereby the tips may be fastened to the cover, and each having a tubular body for reception of the tapered end of the arms of the ribs; and flexible means
20 engaging each of the tips to hold said tips in an adjusted position, for the purpose set forth.

This specification signed and witnessed this eighteenth day of June A. D. 1910.

MARTIN BEARMAN.

Witnesses:

ROBT. B. ABBOTT,
F. L. TYNDALL.