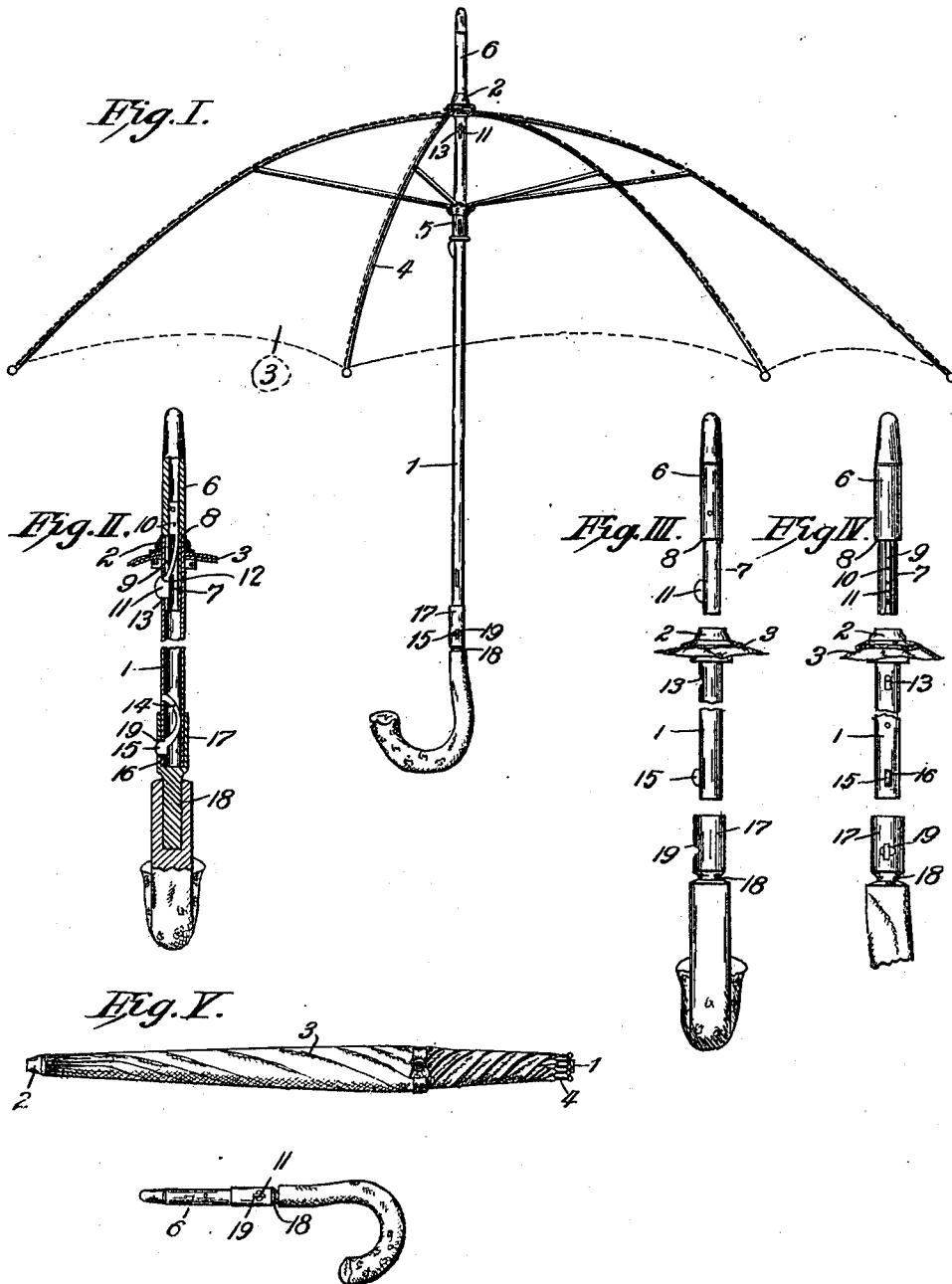


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 UMBRELLA.
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UNITED STATES PATENT OFFICE.

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UMBRELLA.

974,437.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FRANK W. ROTZELL, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Umbrellas; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to umbrellas, and has for its object to provide a device of that class, in which the rod may be taken apart to reduce the length of the umbrella so that it may fit within a trunk or traveling bag.

Further objects of my invention are to so arrange the rod joints that they may be protected when the umbrella is in use, and to provide for assembling the tip section with a larger part, when the rod is disjointed.

It is a further object of my invention to provide an umbrella of this character, which is simple in operation and economical in construction, and comprises the improved details of structure hereinafter more fully described and pointed out in the claim, reference being had to the accompanying drawings, in which:—

Figure I is a side view of an umbrella constructed according to my invention, the cover being indicated in dotted lines to show the location and relation of the parts. Fig. II is a longitudinal section of the tip and handle portions of the umbrella rod. Fig. III, is a broken elevational view of the same parts. Fig. IV is a similar view, looking from the side. Fig. V is a view of the disjointed parts in their assembled relation.

Referring more in detail to the parts:— 1 designates a hollow metal umbrella rod, the body of which is similar to those in ordinary use and is provided, at its tip end, with a cover ring 2, within which the rod preferably terminates.

3 indicates the umbrella cover, and 4 are ribs which are carried by the runner 5 and are adapted for spreading said cover.

The tip section 6, of the umbrella rod, is made in a separate piece and formed with a shank 7 that is adapted to fit within the channel of the rod body, and has a shoulder 8 that may abut against the outer edge of

the rod body 1 to limit the telescoping action.

The tip shank is provided with a longitudinal groove 9, within which a spring keeper 10 is mounted, the keeper shank being fixed at one end, and provided, at its free end, with a head 11 which is yieldingly projected from the groove, although adapted for retreat into said groove.

The keeper head 11 is preferably beveled at its free end in order that the keeper may be moved downwardly when the tip is inserted into the rod body, and has a hook edge 12 which is adapted to hold against the edge of a slot 13 in the rod body when the tip is in place.

By locating the slot 13 in the portion of the rod that is inclosed by the umbrella cover, it is protected from foreign matter which might clog therein, and is sheltered from rain or snow, which might freeze in the slot and interfere with the operation of the keeper.

At its handle end, the rod body is provided with a spring keeper 14, the head 15 of which is yieldingly projected through a slot 16 and is beveled so that the keeper will be forced to yield when the socket 17 of a handle shank 18 is moved thereover.

Socket 17 is provided with a slot 19 into which the keeper head 15 may project for the purpose of locking the handle and rod parts together when the umbrella is to be used, and into which the head of the tip keeper may project when the rod is disjointed and the handle and tip sections are assembled.

When the umbrella is in use, the tip and handle sections are united as described, and the umbrella used in the ordinary manner, the keeper slot in the tip end of the rod being protected by the cover when the umbrella is either open or closed.

When it is desired to pack the umbrella in a suit case, or elsewhere, the keeper 10 is pressed inwardly against the tension of its spring and the tip removed from the body of the rod. The handle section is removed in a like manner and the tip section projected into the handle collar and locked through the tip keeper and collar slot connection. With the umbrella in this condition the rod body and cover parts will be sufficiently shortened to enable it to fit within a much smaller space than when the umbrella is fully assembled, and by joining the handle

and tip parts there is little probability of the small tip section becoming misplaced.

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

5 A separable umbrella comprising a rod section, a tip section, and a handle section, a cover ring mounted on the rod section and having ribs attached thereto, the rod section
10 having a keeper slot therein immediately below the cover ring, the tip section having a reduced part fitting within the rod section and provided with a headed spring keeper, the handle section having a socket into

which the butt of the rod section is projected 15 and having a keeper slot, and the rod section being provided with a spring keeper having a head projected into the slot in the handle socket, the reduced part of the tip section being such that it may enter the socket in 20 the handle portion when the rod section is removed, substantially as set forth.

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

FRANK W. ROTZELL.

Witnesses:

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