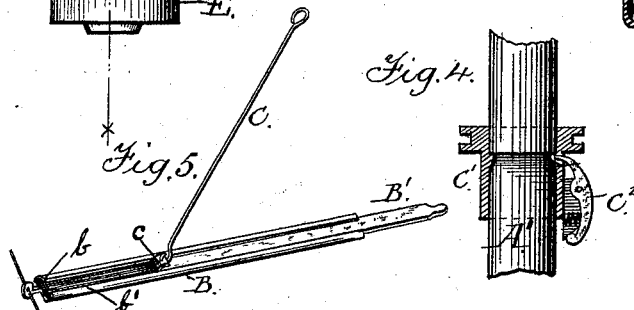
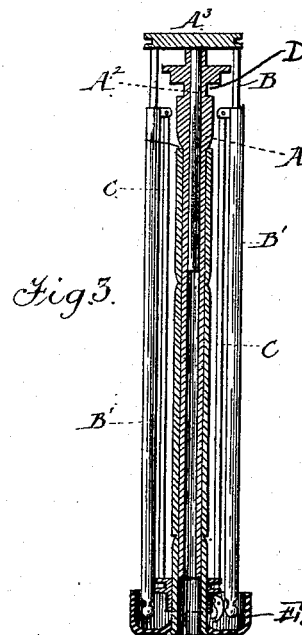
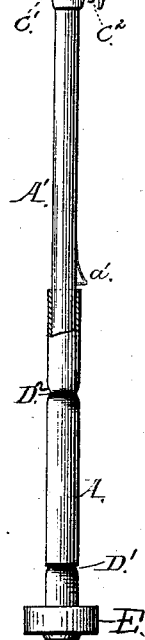
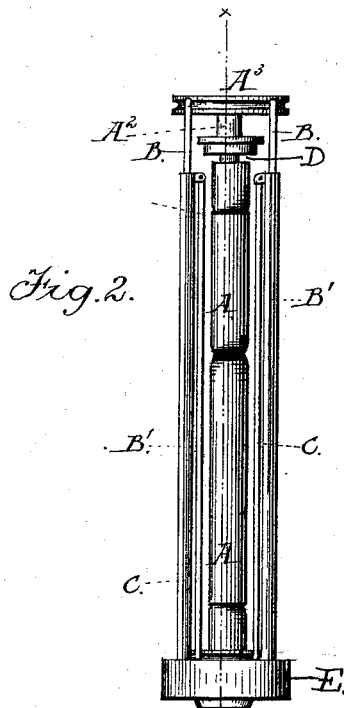
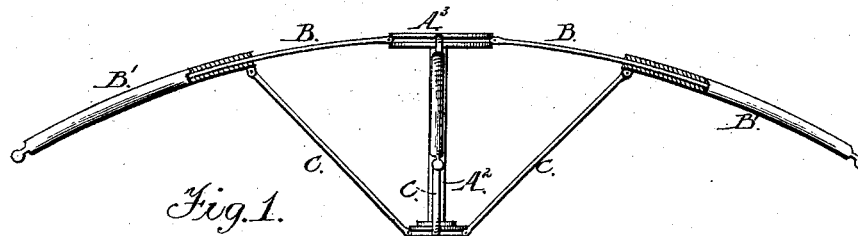


W. B. GREENE.
Umbrella.

No. 216,566.

Patented June 17, 1879.



Witnesses;
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Attorneys

UNITED STATES PATENT OFFICE.

WILL B. GREENE, OF MARIETTA, OHIO.

IMPROVEMENT IN UMBRELLAS.

Specification forming part of Letters Patent No. **216,566**, dated June 17, 1879; application filed April 18, 1879.

To all whom it may concern:

Be it known that I, WILL B. GREENE, of Marietta, in the county of Washington and State of Ohio, have invented certain new and useful Improvements in Umbrellas, adapting them to be carried in the pocket; 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification, in which—

Figure 1 is a view of the handle and frame of my improved umbrella, showing the handle and frame extended; Fig. 2, a view of the handle and frame closed; Fig. 3, a longitudinal section of the same, taken in the line *x x*, Fig. 2; Fig. 4, a view of a portion of the handle, showing the manner of applying the frame-catch; and Fig. 5 is a detail view of the construction of the ribs.

Similar letters of reference denote corresponding parts in all of the figures.

My invention has relation to umbrellas, and more particularly to that class in which the article is made telescopic, so as to bring it in the shortest possible space; and to accomplish that end it consists of certain improvements in the construction of the same, hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings, *A A'* represent the handle, made in the form of a tube, the upper part, *A'*, being of a diameter to fit snugly within the part *A*, but adapted to slide readily therein. *A²* is an extension of the handle *A A'*, and which fits into the part *A'* of the handle, and to this part *A²* the head *A³*, to which the ribs are secured, is connected.

B and *B'*, Fig. 5, show clearly the construction of the sliding ribs, the portion *B* being made of spring sheet metal, and having the longitudinal flanges or guides *b* and *b'*, in which is the sliding portion *B'*, also of spring metal, and bent up and perforated at *c*, so as to form a connection with the brace *C*.

C C are the stretchers or stays, which may be made in any convenient manner, and which

are connected at their lower ends to the usual construction of slide *C'*. The upper ends of these stretchers or stays are connected to the bent ends *c* of the part *B'* of the ribs *B B'*. The part *A'* of the handle is provided with a spring-catch, *a'*, which holds the two parts *A A'* in their extended position by being forced out over the edge of the part *A*, and also assists in holding the parts in their folded form by its frictional contact with the inner face of the part *A*. The slide *C'* is provided with a spring-pawl, *C²*, which, when the parts are extended, catches into a groove, *D*, formed in the upper end of the part *A'* of the handle, and when the parts are in their closed position it serves the purpose of holding them by means of a notch, *D'*, formed in the lower end of the part *A*.

The operation of the device is as follows: The parts being in the extended position shown in Fig. 1, and it is desired to close or fold them into the position shown in Fig. 2, the operator first presses on the spring *a'*, which permits the part *A'* to slip into the part *A*, and at the same time by pressing on the pawl *C²* the slide is released and drawn down on the part *A*, which motion causes the part *B* to turn on its pivotal connection with the head, bringing the ribs and stretchers in close contact with the handle, when by pressing on the head and lower end of the handle the parts will be brought into the position shown in Fig. 2. The lower end of the handle is provided with the rigid cup *E* for holding the tips of the ribs together. To open the umbrella, hold the handle below the cup *E*, and pull the head *A³* until the handle stops, when all the ribs will be out at full length. Press the spring-catch *a'*, and then move up the braces *C* by means of the runner *C'* until the spring-pawl *C²* engages with the groove *D* in the upper end of the part *A'*. Any convenient form of extension may be used with the handle by which it may be grasped.

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

1. In an umbrella, the sliding rib *B*, made of spring sheet metal, and provided with the longitudinal flanges or guides *b* and *b'*, in com-

..... bination with the flexible sliding portion B',
..... its end bent over and perforated at *c*, forming
..... a connection with the brace C, substantially
..... as and for the purpose set forth.

..... 2. In an umbrella, the extensible flexible
..... ribs B B', provided with the brace C, in com-
..... bination with the handle A', having spring-
..... catch *a'*, and runner C', provided with spring-
..... pawl C², substantially as shown and described.

..... 3. In an umbrella, the handle A, having cir-
..... cumferential grooves D¹ D² and cup or keeper

..... E, in combination with the extension A¹, hav-
..... ing spring-catch *a'* and circumferential groove
..... D, the runner C', having spring-pawl C², and
..... the top extension A², having the head A³,
..... substantially as described.

..... In testimony that I claim the foregoing I
..... have hereunto set my hand this 17th day of
..... April, 1879.

..... WILL B. GREENE.

..... D. D. KANE,

..... A. G. HEYLMAN.