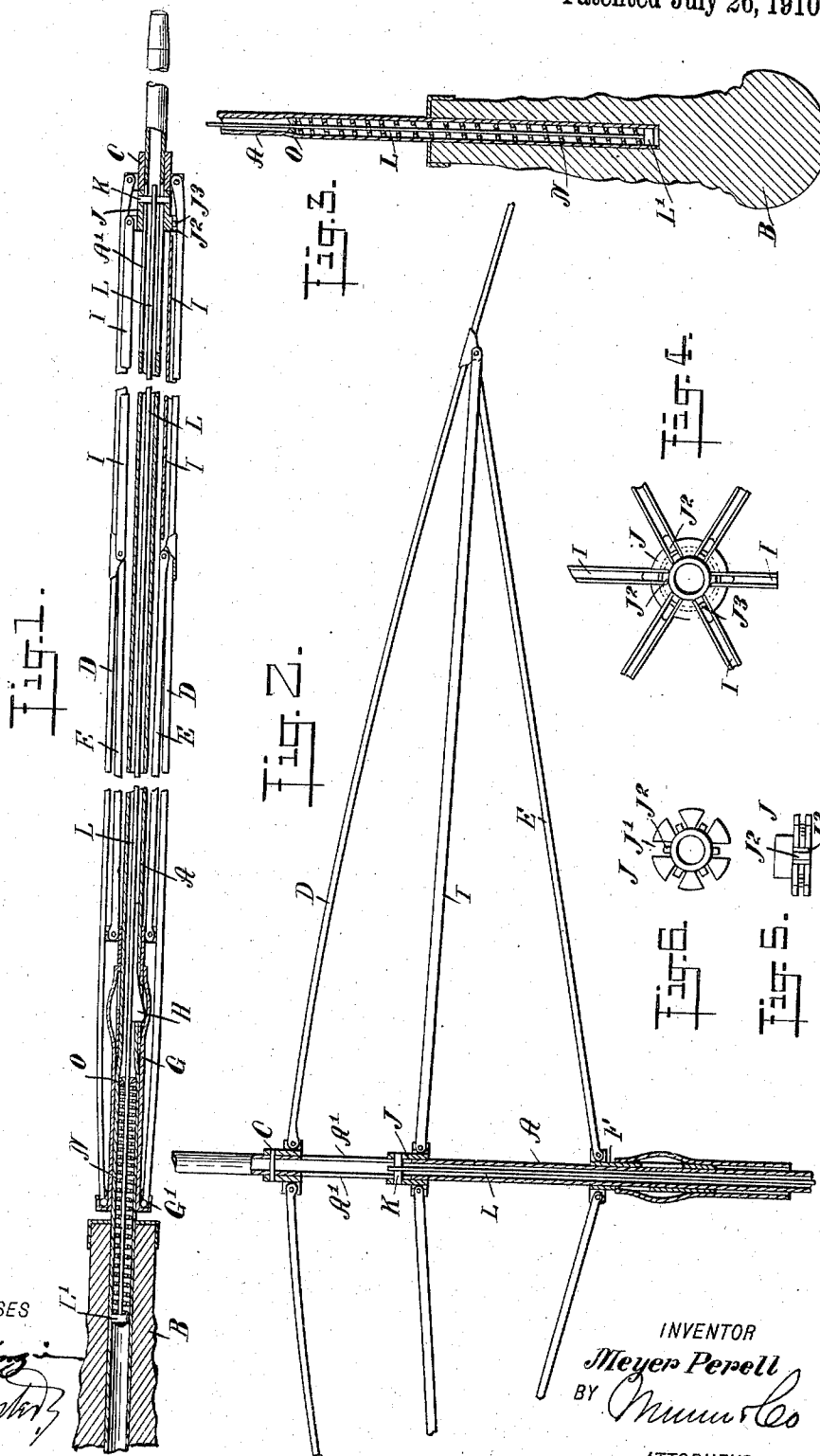


M. PERELL.
 UMBRELLA OR PARASOL.
 APPLICATION FILED JUNE 30, 1909.

965,652.

Patented July 26, 1910.



WITNESSES

W. H. H. H.
W. H. H. H.

INVENTOR
Meyer Perell
 BY *Mum & Co*
 ATTORNEYS

UNITED STATES PATENT OFFICE.

MEYER PERELL, OF NEW YORK, N. Y.

UMBRELLA OR PARASOL.

965,652.

Specification of Letters Patent.

Patented July 26, 1910.

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To all whom it may concern:

Be it known that I, MEYER PERELL, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Umbrella or Parasol, of which the following is a full, clear, and exact description.

The invention relates to self-opening umbrellas and parasols, and its object is to provide a new and improved umbrella or parasol, arranged to insure self-opening on unlocking the closed umbrella, and to permit of closely rolling the umbrella at the time the operating parts are in a closed position.

In order to accomplish the desired result, use is made of auxiliary braces and an auxiliary runner, connected by way of the hollow umbrella stick with a spring concealed in the handle end of the stick, the auxiliary runner moving in the opposite direction to the regular runner, on closing or opening the umbrella, and the auxiliary braces and the ribs embracing one the other at the time the umbrella is closed.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a longitudinal sectional elevation of the umbrella, showing the parts in closed position and the covering omitted; Fig. 2 is a similar view of the same open; Fig. 3 is a sectional side elevation of the handle end of the umbrella, and showing more particularly the actuating spring and the connecting rod for connecting the actuating spring with the auxiliary runner; Fig. 4 is a plan view of the auxiliary runner and the auxiliary braces; Fig. 5 is an edge view of the auxiliary runner; and Fig. 6 is a plan view of the same.

The hollow stick A of the umbrella terminates at one end in a handle B and near the other end is secured the usual crown C, on which are pivoted the ribs D carrying the umbrella covering in the usual manner. The ribs D are pivotally connected by the braces E with the usual runner F mounted to slide on the stick A and controlled by the tubular slide G, which also controls the usual locking catch H in the lower end of the hollow stick A. The slide G is provided at its bottom with a cup G' for receiving

the tips of the ribs D at the time the umbrella is closed (see Fig. 1).

The umbrella so far described is of ordinary construction, and my improvement consists of the following arrangement: The ribs D are pivotally connected by auxiliary braces I with an auxiliary runner J, mounted to slide on the stick A between the crown C and the main runner F, and the auxiliary runner J is provided with a transverse pin K extending through elongated slots A' formed diametrically opposite each other in the hollow handle A immediately below the crown C, as plainly indicated in Figs. 1 and 2. To the pin K is attached the upper end of a rod L extending within the hollow stick A and terminating at its lower end in a collar L' engaging the lower end of a coil spring N, held in the lower or handle end of the hollow stick A, as plainly shown in Figs. 1 and 3. The upper end of the spring N abuts against a projection O, fixed in the hollow stick A, so that the tension of the spring N is exerted in a downward direction on the collar L' and hence on the rod L, with a view to move the auxiliary runner J into the open position shown in Fig. 2. When the parts are in a closed position, as shown in Fig. 1, and the main runner is locked in place by the spring catch H and the tips of the ribs D are held in the cup G', then the spring N is under compression and the auxiliary runner J abuts against the crown C, as plainly indicated in Fig. 1. Now when the slide G is moved downward sufficiently to release the tips of the ribs D, and the slide is pushed upward to move the spring catch H inward and thus unlock the main runner F, then the tension of the spring N causes a downward pull on the rod L, thus pulling the auxiliary runner J in a like direction, thereby causing an outward upward swinging movement of the ribs D and an upward sliding of the main runner F until the umbrella is completely open without any action on the part of the operator except the manipulating of the slide G, as above explained.

When it is desired to close the umbrella, the operator pulls the slide G in a downward direction, thus causing an inward swinging of the ribs D and an upward movement of the auxiliary runner J, whereby the spring N is pressed. When the parts are in a closed position the lower ends of the auxil-

5 iary braces are closer to the center of the stick A than the upper ends, that is, the braces I have passed the center position and consequently the umbrella is not liable to open accidentally unless the slide G is given an unusual movement sufficient to swing the auxiliary braces I past the center position.

10 In order to insure a close rolling of the umbrella, the auxiliary braces I are grooved at the top, that is, made approximately V-shape in cross section, so as to receive in the grooves the corresponding ribs D, as plainly indicated in Fig. 1. Now when the umbrella is closed, the ribs D pass into the grooves of the auxiliary braces I and hence
15 the braces I and E and the ribs D fold close to the stick A, to allow of close rolling of the umbrella, thus giving it a neat appearance when closed.

20 In order to render the umbrella exceedingly strong the auxiliary runner J is provided with notches J' to receive the upper ends of the braces I, the said braces I having their middle portions cut off at the upper ends, as plainly indicated in Fig. 4, to allow a proper swinging of the braces I on the auxiliary runner J. The auxiliary runner J is provided with lugs J², projecting
25 midway in the notches J', to fit against the inner sides of the terminals and braces I, as plainly indicated in Figs. 4 and 6, to give a firm hold to the pivoted ends of the auxiliary braces I, it being understood that the usual wire J³ is spaced in the peripheral
30 groove of the runner J and extends through the forked members or terminals of the auxiliary braces I. By reference to Figs. 1 and 4, it will be seen that the wire J³ abuts against the outer ends of the lugs J², so as
40 to form a firm pivot for the auxiliary braces I to swing on.

The self-opening umbrella shown and described is simple and durable in construction, composed of comparatively few parts,
45 and not liable easily to get out of order.

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

1. An umbrella or parasol, comprising a hollow stick having oppositely arranged
50 slots in its upper portion, a crown secured to the said stick, a main runner slidable on the stick, ribs pivoted on the said crown, main braces connecting the said main runner with the said ribs, an auxiliary runner
55 slidable on the said stick between the said crown and the said main runner and provided with a pin working in the slots of the stick, auxiliary braces connecting the said auxiliary runner with the said ribs, a coiled
60 spring in the handle end of the said stick and attached thereto at its upper end, and a rod in the said hollow stick and extending through the spring, the said rod having a collar at its lower end and engaging the said
65 spring and its upper end secured to the pin of the said auxiliary runner.

2. An umbrella or parasol, comprising a hollow stick having oppositely arranged
70 slots in its upper portion, a crown secured upon the stick, a main runner slidable upon the stick, ribs pivoted to the crown, main braces connecting the main runner with the ribs, an auxiliary runner slidable on the
75 stick between the crown and main runner and provided with a pin working in the slots of the stick, auxiliary braces connecting the auxiliary runner with the ribs, and a spring pressed rod in the handle of the stick and extending into the stick with its
80 upper end secured to the pin of the auxiliary runner.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MEYER PERELL.

Witnesses:

THEO. G. HOSTER,
S. I. ESSE.