Dec. 3, 1929. A. A. THEODOROPULOS 1,738,267

COLLAPSIBLE UMBRELLA

Filed May 9, 1928

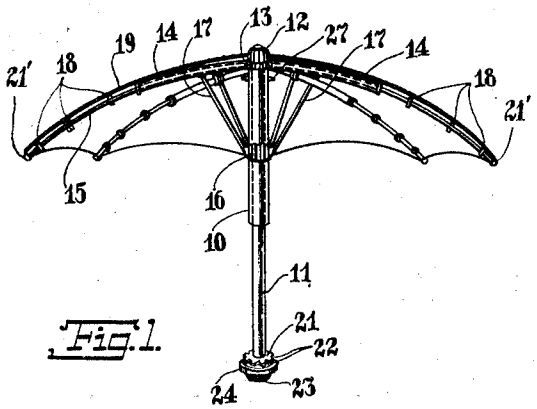


Fig. 1.

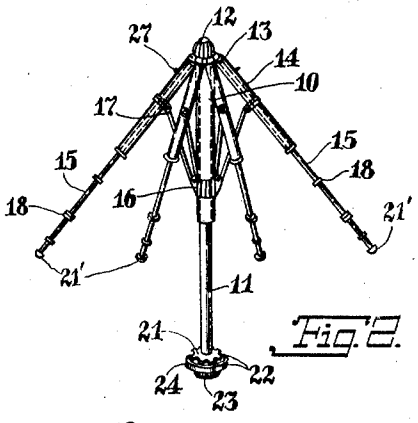


Fig. 2.

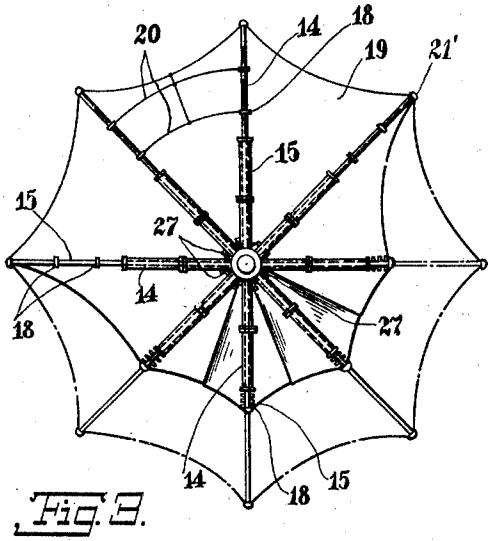


Fig. 3.

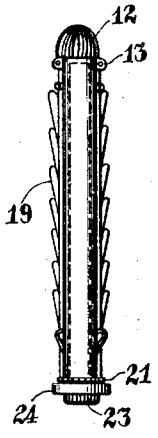


Fig. 4.

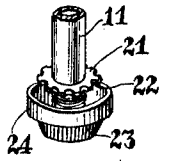


Fig. 5.

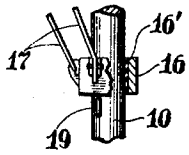


Fig. 6.

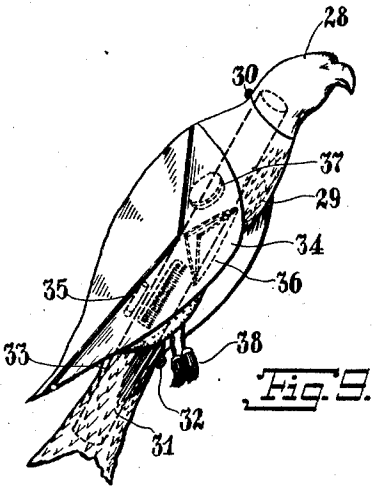


Fig. 9.

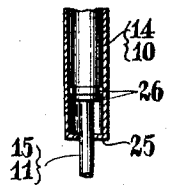


Fig. 8.

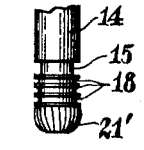


Fig. 7.

INVENTOR.
Aristede A. Theodoropulos
BY Zoltan Polachek
ATTORNEY

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UNITED STATES PATENT OFFICE

ARISTEDE A. THEODOROPULOS, OF NEW YORK, N. Y.

COLLAPSIBLE UMBRELLA

Application filed May 9, 1928. Serial No. 276,206.

This invention relates generally to umbrellas, and has more particular reference to a novel type of collapsible umbrella.

The invention has for an object the provision of a device of the class mentioned which is of simple durable construction, desirable and efficient in action, and which can be manufactured and sold at a reasonable cost.

The device proposes the use of a collapsible handle and collapsible ribs connected therewith and arranged for operating as an umbrella frame when in extended positions. Both the handle and the ribs are of tubular construction, telescopically arranged and adapted for extending the thinner members thereof into outer positions. The thinner outer rib portions are provided with slidable rings, and umbrella cloth is attached to the thicker outer rib portions and to the rings. An eagle designed case is provided for holding the umbrella in collapsed condition.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing, forming a material part of this disclosure:—

Fig. 1 is a central vertical sectional view of a device constructed according to this invention.

Fig. 2 is a similar view of the device in partially collapsed condition.

Fig. 3 is a plan view of the bottom side of the umbrella, certain of the ribs being shown in collapsed condition.

Fig. 4 shows the umbrella completely collapsed.

Fig. 5 is a detail fragmentary view of the lower portion of the umbrella handle.

Fig. 6 is a detail fragmentary view of the rib holder slider on the handle.

Fig. 7 is a detail fragmentary view of one of the ribs.

Fig. 8 is a fragmentary central sectional view of one of the ribs.

Fig. 9 is a side elevational view of the umbrella casing.

The reference numeral 10 indicates generally the thicker tubular member of an umbrella handle having a thinner tubular member 11 telescopically connected therewith. A top knurled cap 12 is threadedly engaged on the free end of the member 10, and clamps a ring 13 in place. A plurality of flexible tubular rib members 14 are pivotally connected to the ring 13, and smaller flexible tubular rib members 15 are telescopically engaged in the members 14.

A rib holder slider 16 engages upon the member 10 and has pivotally connected links 17 also pivotally connected with the members 14. Each of the ribs 15 has several rings 18 slidably mounted thereon, and umbrella cloth 19 is firmly secured to the members 14 and to the rings 18. This cloth is tightly arranged to bend the ribs of the umbrella into curved form as is customary in common umbrellas. A snap catch 19 is built into the handle 10 to properly hold the slider 16 for producing the rib curvatures.

In Fig. 2, the slider 16 is slightly moved downwards, and the ribs are in partially closed positions. Then the ribs are straightened, and members 15 may be manually forced into the members 14.

When the ribs of the umbrella are collapsed the portions 15 slide into the portions 14 and the rings 18 move into close relation as shown in Fig. 3. Strings 20 are tied between the rings 18 for properly positioning the rings when in spread positions. In completely collapsed condition, the umbrella cloth 19 is wrinkled and folded, as shown in Fig. 4.

The member 11 is provided at its bottom free end with a guide disc 21 with niches 22 for receiving the ribs of the device, and a cap 23 with a flange 24 is threadedly attached to the extreme lower portion of the member 11. When the cap 23 is screwed on completely the umbrella ribs are caught by the flange 24 for holding the umbrella closed.

The slider 16 is rubber lined as indicated in Fig. 6 by numeral 16′. This will add to the functioning of this slider and also to its durability. In Fig. 7 a detail is shown of the tips of the ribs in collapsed positions.

Each of the tips are provided with a knurled nut 21′.

Fig. 8 clearly shows the detail of the connections between the telescopic members. Each of the thicker members are formed with flanges 25 and the thinner members with leather and metal pistons 26. The said thicker members are air tight, and this is also true of the pistons. Valves 27 are formed in each of the thicker members and are arranged for manual operation for allowing air to enter the thicker when the thinner members are extended and also for allowing the passage of air when the thinner members are retracted. The arrangement is such that when the valves are closed, the tubular members retain their extended or retracted positions.

In Fig. 9 a casing for the umbrella is shown, which is of eagle shape and design. The head 28 of the eagle is hingedly connected to the body 29 as at 30. A tail 31 is secured to the body 29 by means of latches 32. A hollow 33 is formed in the tail, the body and the head for accommodating the umbrella in folded condition. The body 29 is provided with wings 34 in the form of pocket books provided with various articles such as lipstick 35, a handkerchief 36, a powder case 37 and any other useful articles. Fringes 38 are attached to the body 29 for simulating feet.

While I have shown and described the preferred embodiment of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

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

1. In an umbrella of the class described, telescopic ribs each consisting of a plurality of telescoping sections, rings slidable on the outer sections of the ribs, and an umbrella cloth fixed on the inner sections and on said rings.

2. In an umbrella of the class described, ribs comprising main sections and thinner end sections slidable in the main sections, rings slidable on the end sections of the ribs, and an umbrella cloth fixed on the main sections and on said rings.

3. In an umbrella of the class described, ribs comprising main sections and thinner end sections slidable in the main sections, rings slidable on the end sections of the ribs, strings connecting the rings for holding them correctly located when in spaced condition, and an umbrella cloth fixed on the main sections and on said rings.

4. In an umbrella of the class described, ribs comprising main sections and thinner end sections slidable in the main sections, rings slidable on the end sections of the ribs, a means for holding the sections in either open or closed positions, and an umbrella cloth fixed on the main sections and on said rings.

In testimony whereof I have affixed my signature.

ARISTEDE A. THEODOROPULOS.