O. W. F. POSSELT.

COLLAPSIBLE UMBRELLA.

APPLICATION FILED JUNE 9, 1920.

1,390,382.

Patented Sept. 13, 1921.

2 SHEETS—SHEET 1.

Fig. 1.

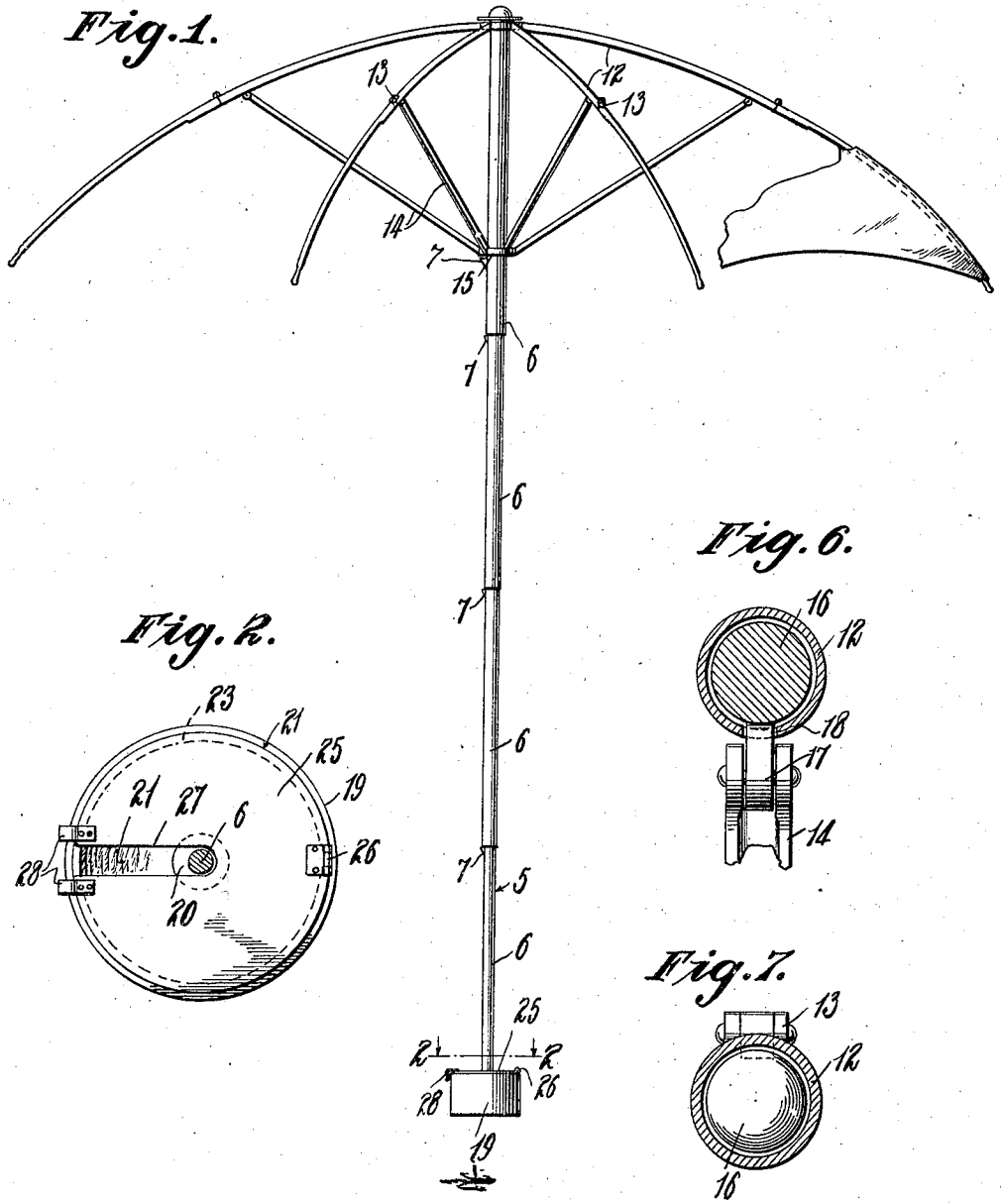

Fig. 2.

Fig. 6.

Fig. 7.

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2 SHEETS—SHEET 2.

Fig. 3.

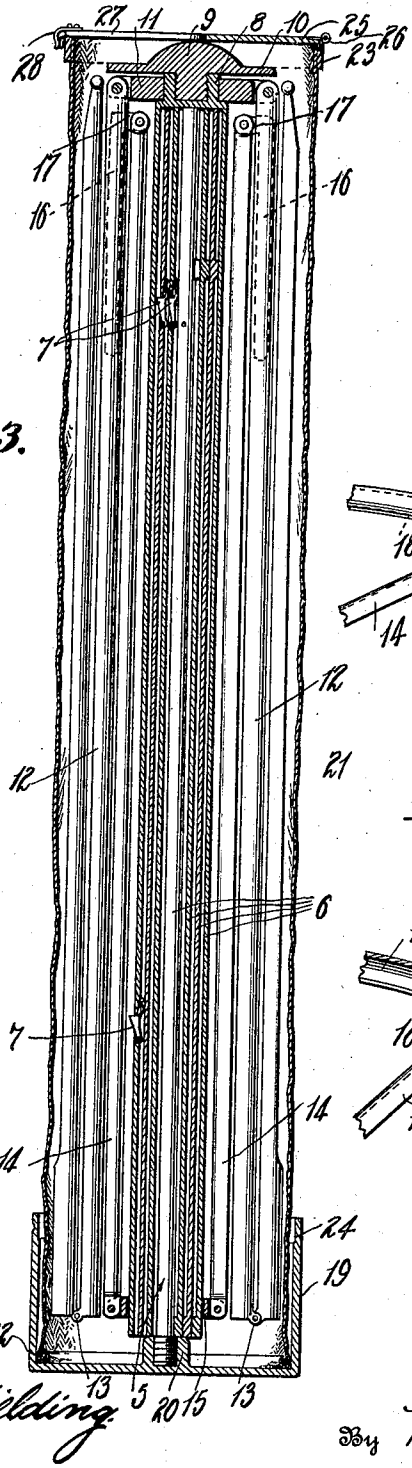


Fig. 4.

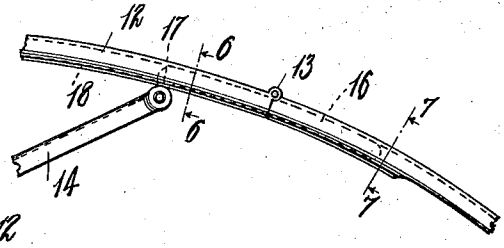
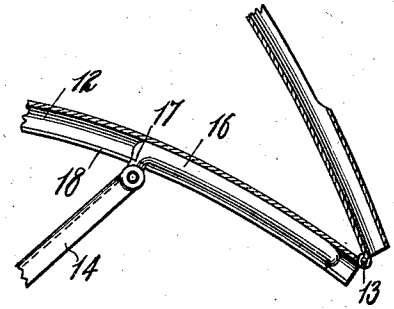


Fig. 5.



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UNITED STATES PATENT OFFICE.

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COLLAPSIBLE UMBRELLA.

1,390,382. Specification of Letters Patent. Patented Sept. 13, 1921.

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To all whom it may concern:

Be it known that I, OTTO W. F. POSSELT, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented a new and useful Collapsible Umbrella, of which the following is a specification.

My invention relates to collapsible umbrellas and its principal object resides in the provision of an umbrella which may be readily folded into compact form when not in use.

Further, the invention provides a collapsible umbrella having an extensible cover or envelop for inclosing the umbrella when the same is collapsed and which cover will be housed in a compartment at one end of the umbrella when the latter is in extended or operative position.

The invention further contemplates a collapsible umbrella wherein the various ribs are provided with hinged joints that are locked against breaking in a novel manner.

The invention also provides an umbrella embodying a telescopic staff, one of the sections of which carries a receptacle in which a fabric umbrella sheath or envelop is normally received when the umbrella is in use, and which may be readily extended to inclose the umbrella when collapsed.

With the preceding and other objects and advantages in mind that will be fully set forth herein, the invention consists in the novel combination of elements, constructions and arrangement of parts, and operations to be fully disclosed in the following specification and claims, and illustrated in the accompanying drawings, wherein:

Figure 1 is an elevation of the umbrella in extended position, parts of the umbrella covering being removed from the ribs;

Fig. 2 is a sectional view taken on line 2—2 of Fig. 1;

Fig. 3 is a vertical sectional view of the umbrella in collapsed position and the cover or envelop inclosing the same;

Fig. 4 is a fragmentary detailed view of one of the ribs with its hinged joint locked against breaking;

Fig. 5 is a similar view showing the rib in longitudinal section and the hinged joint broken;

Fig. 6 is a transverse sectional view taken on line 6—6 of Fig. 4; and

Fig. 7 is a similar view taken on line 7—7 of Fig. 4.

Referring in detail to the drawings wherein like characters of reference designate corresponding parts throughout the several views, the numeral 5 designates the staff of the umbrella and includes a plurality of telescopic sections 6, each of which is provided with a resilient catch 7 which, when the telescopic sections are extended, locks the same rigid with each other.

The uppermost section 6 is provided with a threaded nipple 8 in which a threaded plug 9 formed with an annular flange 10 is threaded. A collar 11 is received on the nipple 8 and held against movement by the flanged plug.

The ribs are designated at 12 and are hingedly connected at their inner ends with the collar 11 in the usual manner. The upper section of each of these ribs is tubular and is provided with a hinged joint 13 intermediate its ends, while the upper ends of the lower section of the ribs are tubular. A plurality of rib supporting arms are designated at 14 and have their inner ends pivotally connected with the usual collar 15 slidable on the uppermost telescopic section 6, this collar being held in raised position to hold the supporting rods 14 in the position illustrated in Fig. 1 by the resilient catch 7 carried by this uppermost telescopic section.

A locking bolt 16 is slidably mounted in the ribs and when projected forwardly, beyond the hinged joints, as illustrated in Fig. 4, locks these hinged joints against breaking. These locking bolts 16 are provided with lateral extensions 17 which project through longitudinal slots 18 in the ribs and are pivotally connected to the outer ends of the supporting rods 14.

It will be obvious that upon raising the ribs 12 and rods 14, the locking bolt 16 will be projected longitudinally in their respective ribs to underlie the hinged joints and prevent the same from breaking. Reversely, upon lowering the ribs 12 and rods 14, the bolts will be retracted to permit the ribs to be broken at their joints as illustrated in Fig. 5.

A cylindrical casing or chamber open at the top is designated at 19 and is provided with a threaded nipple 20 centrally of its bottom in which the lower end of the endmost section 6 of the telescopic staff 5 is threaded. An extensible fabric covering or sheath, which is substantially cylindrical

and open at both ends, is designated at 21 and is adapted to be received within the casing 19 when the umbrella is in extended position. The lower end is secured to a ring 22 arranged upon the bottom of the casing 19.

A resilient band 23 is secured to the opposite end of the sheath or covering 21 and is adapted to be positioned in an annular recess 24 upon the inner face of the casing 19 at its upper end. A cover 25 for the casing 19 is hinged to the band 23, as at 26, and is provided with a slot 27 that extends to one edge of the cover and receives the lowermost section 6 of the telescopic staff when the sheath or covering 21 is arranged within the casing 19. Resilient catches 28 are carried by the free end of the cover 25 and engage the upper end of the casing 19 to retain the cover in locked position.

In using my improved umbrella, assuming the same is collapsed, the hinged cover 25 is swung to one side of the casing 19 and the fabric sheath or covering extended to inclose the umbrella. After the sheath or covering has been fully extended, the cover is then swung inwardly and the resilient catches 28 engaged with lips or lugs carried by the resilient band 23 to lock the cover against accidental movement.

When the umbrella is in use the hinged cover is swung outwardly and the covering or sheath slipped downwardly and arranged within the casing 19, and the resilient band carried by the upper end thereof engaged in the annular recess 24. The cover is then swung inwardly to close the casing as illustrated in Figs. 1 and 2 of the drawings.

It is to be understood that the form of my invention herein shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

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

1. The combination with a collapsible umbrella, of a casing fixed to one end thereof, a flexible covering to inclose the collapsed umbrella, said covering being adapted to be received within the casing when the umbrella is in use, and a closure carried by the upper end of the flexible covering to close the casing when the covering is received therein.

2. The combination with a collapsible umbrella, of a casing fixed to one end thereof and having its upper end open, of a substantially cylindrical flexible covering adapted to be inclosed in the casing when the umbrella is in operative position and adapted to be extended from the casing to inclose the umbrella when the latter is collapsed, and a hinged closure for the casing carried by the outer end of the flexible covering.

3. The combination with a collapsible umbrella including a telescopic staff, of a casing secured to one end of one of the endmost sections of the staff and having its upper end open, an extensible flexible covering adapted to be received in the casing when the umbrella is in operative position and adapted to be extended from the casing to inclose the umbrella when collapsed, and a closure for the casing carried by the outer end of the extensible covering.

4. The combination with an umbrella including a telescopic staff, of a casing carried by one end thereof and open at its top, a flexible covering adapted to be received in the casing when the umbrella is in operative position and adapted to inclose the umbrella when collapsed, a resilient band carried by the outer end of the covering and adapted to resiliently engage the upper end of the casing when the covering is received therein, and a closure for the casing hinged to the band and provided with a longitudinal slot for the reception of the staff when the covering is housed within the casing.

OTTO W. F. POSSELT.