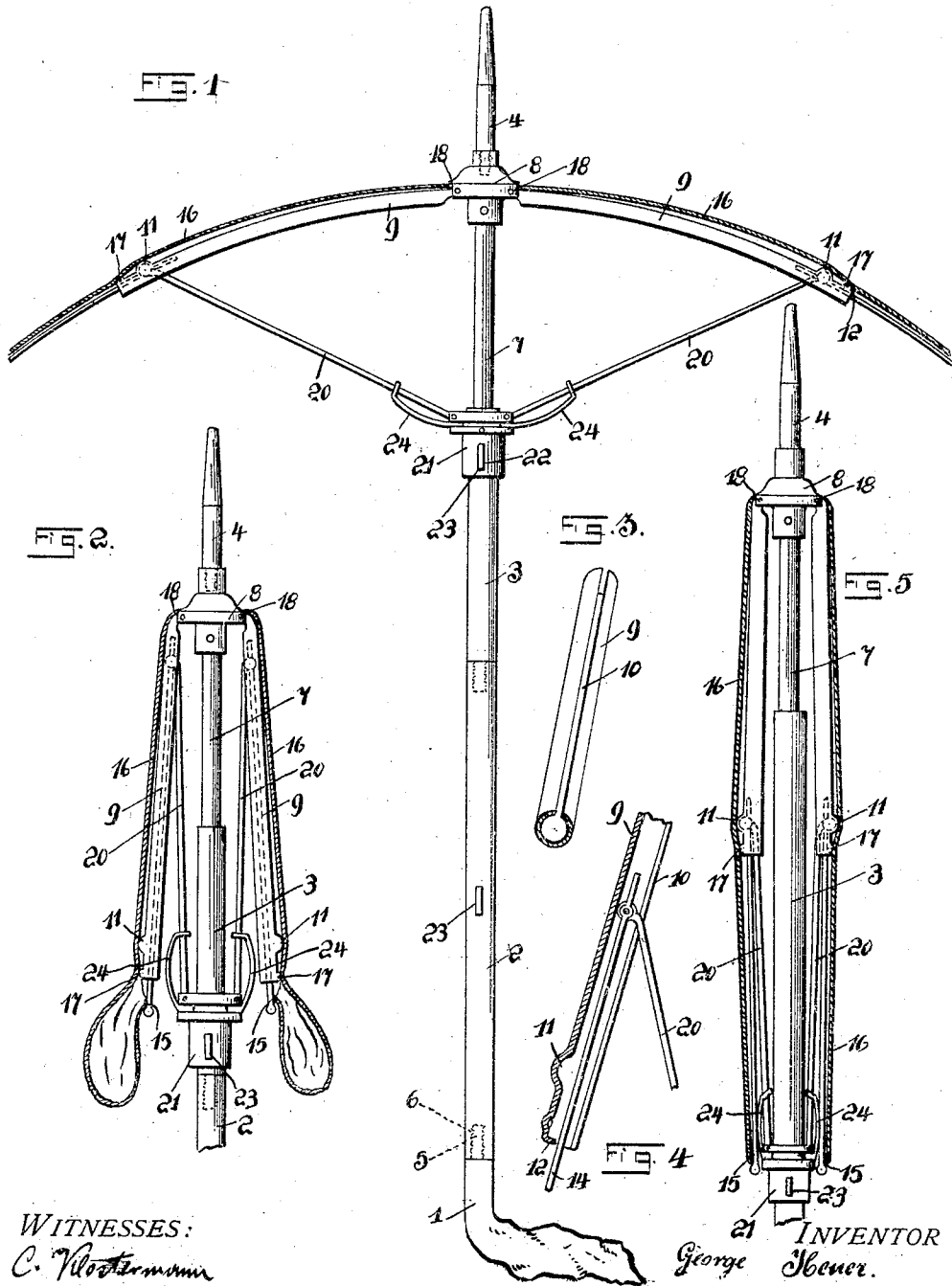


No. 858,181.

PATENTED JUNE 25, 1907.

G. HEUER.
FOLDING UMBRELLA.
APPLICATION FILED JAN. 23, 1907.



WITNESSES:
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GEORGE HEUER, OF GREENSBURG, PENNSYLVANIA.

FOLDING UMBRELLA.

No. 858,181.

Specification of Letters Patent.

Patented June 25, 1907.

Application filed January 23, 1907. Serial No. 353,740.

To all whom it may concern:

Be it known that I, GEORGE HEUER, a subject of the Emperor of Germany, residing at Greensburg, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Folding Umbrellas, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to folding umbrellas, and the invention has for its object to provide a novel umbrella that can be folded into a comparatively small parcel, whereby it may be easily carried within a satchel, suit case or similar valise, and even in a person's pocket.

To this end, I have devised an umbrella consisting of a sectional handle rod and telescopic cover supporting ribs. I employ the stretchers for moving the outer sections of the cover supporting ribs into the inner sections of said ribs, thus facilitating the operation of folding the umbrella.

The detail construction of my improved folding umbrella will be hereinafter fully described and then specifically pointed out in the appended claims, and referring to the drawing forming part of this specification, like numerals of reference designate corresponding parts throughout the several views, in which:—

Figure 1 is an elevation of a portion of an umbrella constructed in accordance with my invention, the umbrella being illustrated in a raised position and partly in section, Fig. 2 is a similar view illustrating the umbrella in a folding position, Fig. 3 is a detail perspective view of a portion of one of the inner sections of the cover-supporting ribs, Fig. 4 is a detail sectional view of the same illustrating an outer cover-supporting rib therein, and Fig. 5 is an elevation of a portion of the umbrella in a lowered position.

To put my invention into practice, I construct the handle rod or stick of the umbrella in four sections, a handle section 1, an intermediate section 2, upper section 3 and a tip section 4, these sections being connected together by threaded stems 5 entering threaded sockets 6 carried by adjoining sections. The upper section 3 is reduced in diameter as at 7 and is provided with a rib-supporting notch 8 to which is pivotally connected the inner ends of the tubular inner sections 9 of the cover-supporting ribs, said tubular sections being slotted as at 10, throughout their

length. The sections 9 are provided near their outer ends with recesses 11 and at their ends with inwardly projecting lugs 12, the object of which will be presently described. Slidably mounted in the sections 9 are outer cover supporting sections 14, and connecting with the outer ends of these sections, as at 15, is an umbrella cover 16, which is also connected to the sections 9 as at 17, and to the rib supporting notch 8 as at 18. The inner ends of the outer sections 14 are pivotally connected as at 19 to the outer ends of stretchers 20, said sections being pivotally connected to a runner 21 slidably mounted upon the upper section 3. The runner 21 is slotted as at 22 to receive the clasps 23 of the sections 2 and 3, said clasps being of a conventional form commonly employed for holding the umbrella in a raised or closed position. The sleeve 21 is also provided with outwardly extending springs 24, which engage the stretchers 20 and have a tendency to force the stretchers downwardly into a horizontal plane.

The manner of manipulating the umbrella to fold the same is as follows: Assuming that the umbrella is in a raised position, as illustrated in Fig. 1 of the drawing, the runner 21 is released and moved downwardly upon the intermediate section 2 of the handle rod, this movement of the runner 21 closing the umbrella to the position shown in Fig. 5 of the drawings. The lower ends of the outer sections 14 of the ribs and the cover 16 are now grasped and forced upwardly, to the position illustrated in Fig. 2 of the drawing. This position of the sections 14 of the ribs allows the cover 16 to neatly fold beneath the sections 9 of the ribs, and the umbrella is retained in its folded position by the uppermost clasp 23. The handle rod is then disjoined and the sections thereof placed alongside of the folded ribs.

To retain the telescopic ribs in an extended position, the springs 24 are employed which are adapted to force downwardly upon the stretchers 20 and hold their ends within the seats or recesses 11 of the sections 9 of the ribs. This is also true when the umbrella is closed, as in Fig. 5. The lugs 12 of the tubular sections 9 of the ribs are employed for preventing the ends of the stretchers 20 from passing out of the tubular rib-sections 9.

What I claim and desire to secure by Letters Patent, is:—

The combination with a jointed stick, a notch carried thereby, and a runner slidable

on the stick, of ribs, each embodying a tubular inner section pivoted at its inner end to the notch and slotted throughout its length, the said inner rib-section having a seat near
5 its outer end, an outer rib-section telescoping the inner rib-section, a stretcher pivoted to the outer rib-section and to the runner having its outer end seated when extended in the seat in said inner rib-section, a lug carried by
10 the outer end of said inner rib-section to limit the outward movement of the outer rib-

section, and a spring carried by the runner and bearing directly upon the stretcher to hold the outer end thereof in the seat provided therefor in the inner rib-section.

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

GEORGE HEUER.

Witnesses:

GEO. J. BRETHAUER,
TOM. I. MATHEAS.