

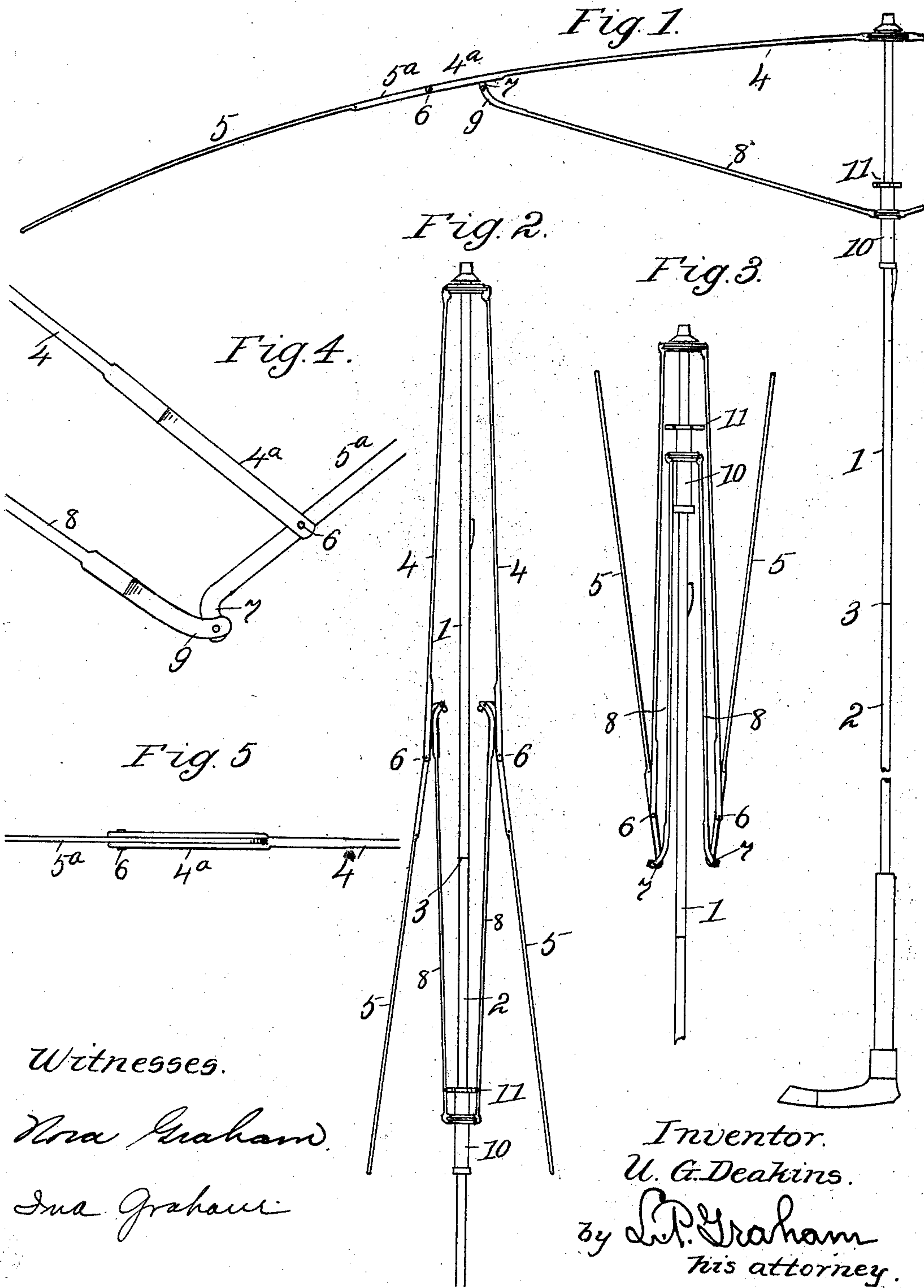
No. 717,175.

Patented Dec. 30, 1902.

U. G. DEAKINS.
FOLDING UMBRELLA.

(Application filed Mar. 12, 1902.)

(No Model.)



Witnesses.

Nora Graham.

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UNITED STATES PATENT OFFICE.

ULYSSES G. DEAKINS, OF DECATUR, ILLINOIS.

FOLDING UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 717,175, dated December 30, 1902.

Application filed March 12, 1902. Serial No. 97,950. (No model.)

To all whom it may concern:

Be it known that I, ULYSSES G. DEAKINS, of the city of Decatur, in the county of Macon and State of Illinois, have invented certain new and useful Improvements in Folding Umbrellas, of which the following is a specification.

One object of this invention is to prevent the ribs from becoming misplaced and tangled when the umbrella is lowered.

Another object is to provide improved connections between the folding parts of the ribs and between the ribs and the stretchers, whereby the parts are held in line.

The invention is exemplified in the structure hereinafter described, and it is defined in the appended claim.

In the drawings forming part of this specification, Figure 1 represents as much of an umbrella as is needed to illustrate my invention, the ribs being held extended in operative position by the stretcher. Fig. 2 represents the conditions that exist when the umbrella is lowered for ordinary use. Fig. 3 shows the umbrella folded in manner to curtail its length. Fig. 4 is a detail, in side elevation, of the connections between parts of a rib and a stretcher. Fig. 5 is a plan detail showing the connections between the parts of a rib.

The stick or handle is composed of parts 1 and 2, separable at 3. The ribs are each composed of an inner part 4, hinged to a ring on the upper end of the stick and a part 5, hinged at 6 to the extended end of part 4. The extended end of part 4 is forked vertically at 4^a and the inner end 5^a of part 5 is thinned vertically and extended between the forks of part 4. The extreme inner end of the thinned portion 5^a is turned downward or inward, as shown at 7. The stretcher 8 is hinged to a ring on sliding sleeve 10, and its outer end 9 curves outward or upward and connects pivotally with the curved extension 7 of part 5 of the rib. The sleeve 10 extends above the ring to which the stretchers are hinged, and

a ring 11 projects laterally from its upper end.

The thinned portion 5^a of part 5 extends inward beyond pivot 6 and rests in the fork of part 4 when the rib is extended. The bend 7 extends below the rib, as shown in Fig. 1, and the part 9 is forked to embrace part 7. So long as the rib is extended the thinned part 5^a fits between the forks at 4^a to provide necessary stiffness, and when the parts of the rib are folded together, as shown in Fig. 3, the curved extension 7 moves into the fork of the end 9 of the stretcher and holds the parts in position.

When the umbrella is in position to be used and is lowered, as shown in Fig. 2, the stretchers 8 come in contact with ring 11 on sleeve 10 and hold the upper ends of the stretchers and the ribs connected therewith from passing the stick and becoming entangled with the stick or with one another.

The perimeter of ring 11 is preferably notched to receive the different ribs, thereby giving lateral support to the stretchers and holding each one in its proper place when the umbrella is lowered, as shown in Fig. 2.

I claim—

In a folding umbrella, the combination of a rib formed of two parts hinged together, the inner part being forked at its outer end and the outer part being thinned to enter the fork of the inner part, a downward or inward extension on the inner termination of the thinned, outer part and a stretcher curved outward or upward at its outer end and forked to embrace the extension of the outer part of the rib, the forked part of the stretcher being pivotally connected with the termination of the thinned, outer part of the rib, substantially as described.

In testimony whereof I sign my name in the presence of two subscribing witnesses.

ULYSSES G. DEAKINS.

Witnesses:

J. D. DEAKINS,

JAMES H. DEAKINS.