

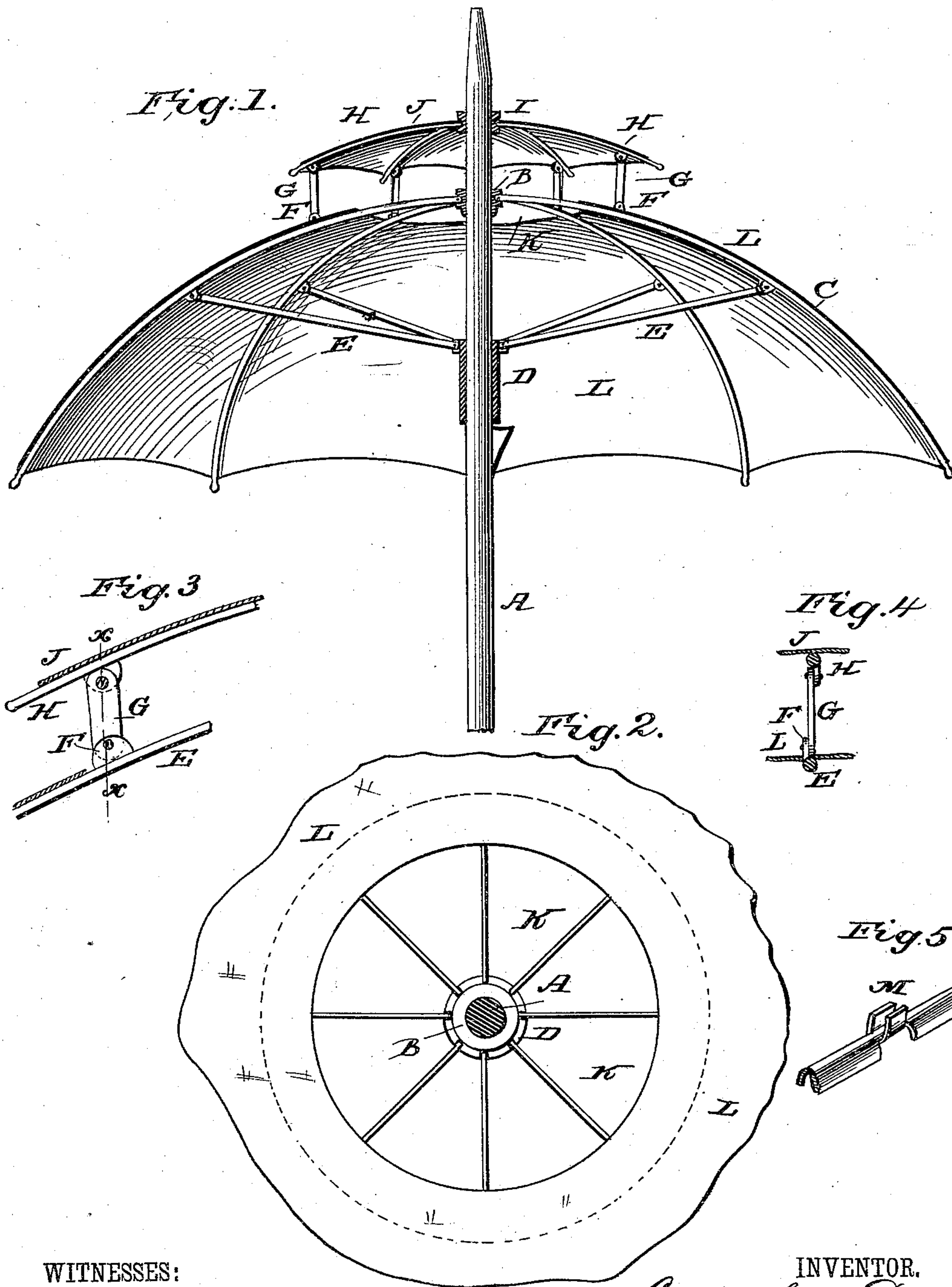
(No Model.)

C. DRAKE.

SUNSHADE AND UMBRELLA.

No. 312,446.

Patented Feb. 17, 1885.



WITNESSES:

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CUNINGHAM DRAKE, OF PHILADELPHIA, PENNSYLVANIA.

SUNSHADE AND UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 312,446, dated February 17, 1885.

Application filed May 12, 1884. (No model.)

To all whom it may concern:

Be it known that I, CUNINGHAM DRAKE, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Sunshades and Umbrellas; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a vertical sectional view of an umbrella embodying my improvements, the said view showing the umbrella in its raised position. Fig. 2 is a horizontal sectional view showing a portion of the umbrella in its raised position, and looking at the same in a downward direction. Fig. 3 is a sectional view taken through one of the ribs, and showing one form of the pivoting-joints. Fig. 4 is a transverse sectional view taken on the line $x x$ in Fig. 3; and Fig. 5 is a detail view showing a modification, which is the preferred construction of the pivoting-joints.

The same letters refer to the same parts in all the figures.

This invention has particular reference to that class of umbrellas which are used as sunshades upon coaches and wagons, and to that particular denomination of such umbrellas which are provided with a central air vent or opening which in the case of high wind will afford a means of escape for the air, and which are, moreover, provided with a deflector arranged above the said opening.

It consists in the improved construction and arrangement of parts which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A designates the staff or handle of the umbrella, which is provided near its pointed end with a ring or ferrule, B, to which the ribs C are pivotally connected in the usual manner. The ribs C are also pivotally connected to the sleeve D, which slides upon the staff or handle in the manner which is common in all umbrellas and

sunshades, by means of connecting rods or braces E. The ribs C are provided near their pivoted ends with lugs F, which are connected, by means of short pivoted rods G, with a supplemental series of ribs, H, which are hinged to a sleeve or ferrule, I, mounted upon the staff A a short distance above the ferrule B. A textile covering, J, is stretched upon the ribs H in such a manner as to overlap a central opening, K, formed in the textile covering L, which is stretched upon the main ribs of the umbrella in the usual manner.

It will be seen that by the construction herein shown when the umbrella is raised it forms virtually a double shield, the main covering of the umbrella being provided with a central opening which is protected and covered by means of the supplemental deflector. The umbrella thus constructed will effectually exclude either rain or the rays of the sun, while at the same time, even in high wind, the currents of air will escape through the central opening in the lower or main covering of the umbrella, thus preventing displacement or injury to the umbrella.

In Fig. 5 I have shown a modification in the construction of the pivoting-joints which connect the lower with the upper ribs of the umbrella. The ribs of which I prefer to avail myself are the so-called "paragon ribs," which are constructed of sheet metal bent into an approximate U shape. At the points at which the pivoted joints are to be formed I strike up lips M from the sides of the said ribs and turn them in an upward direction, as clearly shown in Fig. 5. Between these ribs the connecting-rods G are pivoted, and the upper ends of the said connecting-rods are then pivotally connected to the ribs of the upper umbrella-frame.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation of this invention will be readily understood.

The construction is simple, and not necessarily much more expensive than that of coach-umbrellas as now ordinarily constructed, while the turning of the umbrella or other accidents to the same in a gale of wind is absolutely avoided.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

5 In an umbrella of the class herein described, the combination of a staff or handle, pivoted ribs consisting of U-shaped plates having
s ruck-up portions forming lips F, supplement-
al U-shaped ribs, pivoted connecting-rods
arranged as herein described, an intact cov-
10 ering for the supplemental ribs, and a cover-
ing for the main ribs having a central open-

ing adapted to be covered by the supplement-
al covering or deflector, substantially as herein
set forth.

In testimony that I claim the foregoing as 15
my own I have hereunto affixed my signature
in presence of two witnesses.

CUNINGHAM DRAKE.

Witnesses:

LOUIS BAGGER,
BENNETT S. JONES.