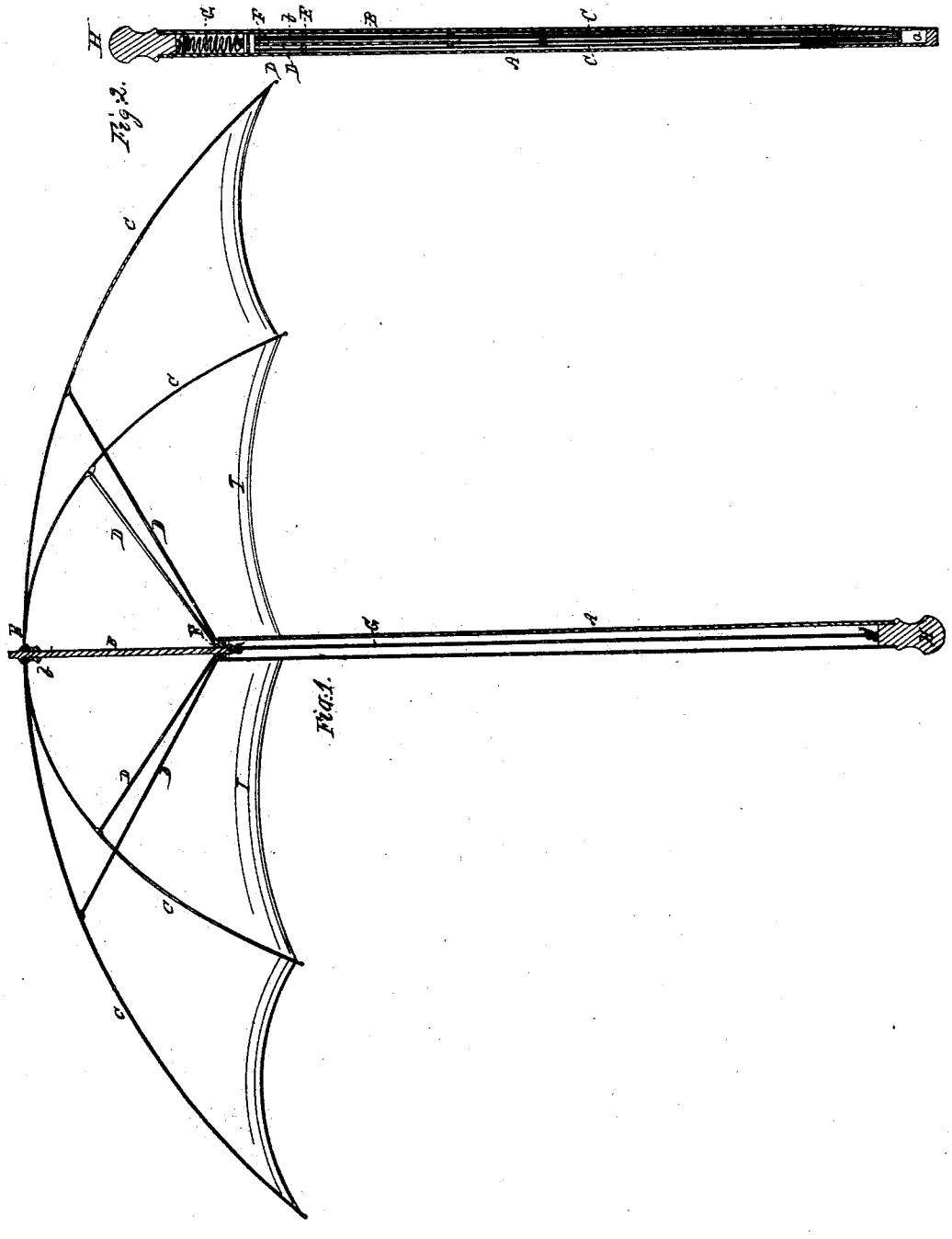
H. CROSBY, Jr.

UMBRELLA.

No. 18,500. Patented Oct. 27, 1857.



UNITED STATES PATENT OFFICE.

HEMAN CROSBY, JR., OF WATERBURY, CONNECTICUT.

CANE-UMBRELLA.

Specification of Letters Patent No. 18,500, dated October 27, 1857.

To all whom it may concern:

Be it known that I, HEMAN CROSBY, JR., of Waterbury, in the county of New Haven and State of Connecticut, have invented an Improved Cane-Umbrella; and I do hereby declare that the same is fully described and represented in the following specification and the accompanying drawings, in which—

Figure 1, denotes a transverse section of one of my improved cane umbrellas as it appears when unfolded or open. Fig. 2, is a transverse section of it in a folded or closed state.

In these drawings, A, exhibits a tubular cane or walking stick constructed so that its ferrule part, *a*, may be removed from the remainder in order that the lower end of the tube may be either opened or closed as occasion may require, it being intended that the umbrella shall pass into said open end during the process of inserting the umbrella within the cane.

The rod or stick of the umbrella is shown at B, while C, C, C, represent the spring ribs or bars, and D, D, D, the stretchers of the said ribs.

In constructing the said umbrella, the rib collar E, by which the ribs are connected with or hinged to the rod or stick B, is to be applied to the said stick or rod so as to slide freely in a longitudinal direction thereon and from a shoulder or stop *b*, near the extremity of the rod toward the joint ring F, of the stretchers. Such joint ring is to be fastened firmly to the rod. Finally, the rod, whose lower terminus ought to be a short distance below the joint ring F, should be connected with the head H, of the handle by means of a cord G, (or its equivalent) the purpose of the cord being to determine the distance which the rod or stick shall project beyond the end of the cane when the former is drawn out of the latter sufficiently to enable the umbrella to be unfolded or spread outward.

The process of folding the umbrella is to be performed by moving the rib collar E, downward on the rod B, and at the same time bending one or more of the sticks or ribs so as to cause them all to spring or turn toward the collar or into the positions as shown in Fig. 2, wherein the ribs are exhibited as in a folded state, but without the covering of silk as seen at I, in Fig. 1. The cane to such an umbrella, thus not only may be made to answer all the purposes of a walking stick or staff, but answers not only as a handle to, but as a case for the umbrella.

After the umbrella has been inserted within the cane, the ferrule or cap should be put in place so as to complete the cane, as a walking stick.

In order to spread the umbrella, it is first to be drawn endwise out of the cane as far as the cord within the latter will permit. Next, the joint collar of the ribs is to be moved forward on the rod and held in position while the ribs are sprung over and into the positions and so as to spread the covering as shown in Fig. 1.

Having thus described my invention what I claim is—

An improved cane umbrella constructed in manner and so as to operate substantially as described, that is to say, as made so that the joint ring or collar of the ribs may slide on the rod and the stretchers applied to the rod, and the whole made so as to be capable of being drawn out of a tubular staff or cane, unfolded or spread out, reversed and folded, returned within the staff as occasion may require.

In testimony whereof I have hereunto set my signature this seventh day of September A. D. 1857.

HEMAN CROSBY, JR.

Witnesses:

NELSON J. WELTON,

FRANKLIN L. WELTON.