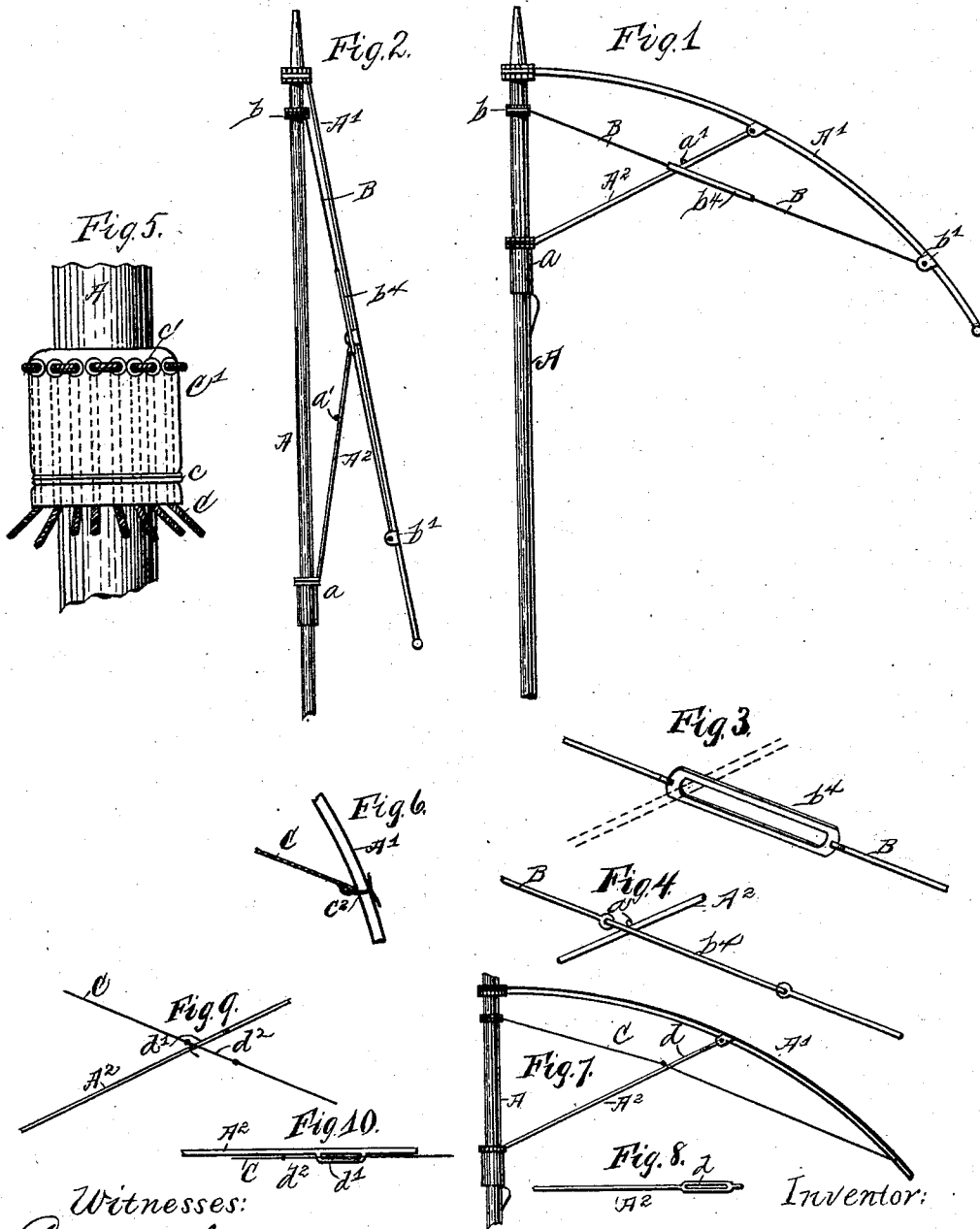


(No Model.)

J. BARNETT.
UMBRELLA.

No. 539,762.

Patented May 21, 1895.



Witnesses:
Aaron Schwarz
Anna S. Green

Inventor:
Jacob Barnett
By his attorneys
Hayman and Pomeroy

UNITED STATES PATENT OFFICE.

JACOB BARNETT, OF NEW YORK, N. Y.

UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 539,762, dated May 21, 1895.

Application filed December 21, 1893. Serial No. 494,332. (No model.)

To all whom it may concern:

Be it known that I, JACOB BARNETT, of New York city, in the county and State of New York, have invented a certain new and useful Improvement in Umbrellas, of which the following is a specification.

This invention relates to umbrellas and it consists in stays having connection at one end with the umbrella ribs and at the other end to a ring rigidly fixed to the umbrella stick.

The object of my invention is to provide means for preventing an umbrella from turning inside out as often happens to umbrellas as ordinarily constructed.

In the accompanying drawings, Figure 1 is a detail indicating an umbrella as open and embodying my invention. Fig. 2 is a detail showing it partly or nearly closed. Fig. 3 is a perspective view, on an enlarged scale, of a detail of the umbrella, a portion of my invention. Fig. 4 is an edge view thereof, and Figs. 5, 6, 7, 8, 9, and 10 show modifications.

Referring by letter to the drawings A, designates the umbrella stick, A' a rib connected to the stick in the usual manner and A² is a stretcher extended from the usual runner a to the rib.

B designates the stay or anchor pivotally connected at one end to a ring b rigidly attached to the stick A just below the ring to which the ribs are attached, and at the other end the stay or anchor is pivotally connected to a lug b' fastened to the rib near its outer end. It is to be understood that a stay or anchor may be extended from each rib or that there may be a less number of stays or anchors that are extended from alternate ribs. Between its ends the stay or anchor has an open or longitudinally slotted portion b⁴ through which opening or slot the stretcher extends. This opening or slot must be sufficiently long to allow for the free movement of the stretcher, during the opening or closing of the umbrella. I prefer, however, that when the umbrella is open the stretcher shall abut against the upper end wall of the opening or slot and I may provide the stretcher with a projection or pin a', adapted to bear upon the upper side of the slotted portion. This projection or pin will serve as a means to prevent the stay or anchor from moving upward on the stretcher and thus serve as an additional an-

chor. This open or slotted portion may be integral with the stay or anchor or it may be a separate piece or plate as indicated in Figs. 3 and 4.

The stays or anchors above described consist of metal, but I may employ flexible cords.

Referring to the modification shown in Fig. 5, C designates flexible cords extended from a leather or similar band C' secured to the stick by means of a wire c. The band C' is provided with a circumferential row of holes c', and a cord C is, at its central portion, laced through two of these holes, extended down between the stick and band and the ends attached to adjacent ribs. As a means for attaching the cords to the ribs I may employ rings c², surrounding the rib and sewed to the umbrella cover. The ring to which the ribs are attached may be slightly larger in diameter than the ring b, so that said ring b and the stays or anchors will not interfere with the close folding of the umbrella.

Referring to the modification shown in Figs. 7 and 8, the stretcher A² is provided with a longitudinal central slot d through which the stay or anchor C of flexible material passes. In Figs. 9 and 10 the brace A² is provided with a lateral loop slot d' and the stay or anchor is provided with a metal hook portion d² which will engage with the loop d' when the umbrella is opened.

By attaching the inner ends of the stays or anchor to a ring rigidly secured to the stick the stays or anchors will not double up and extend out of the umbrella when closed as would be the case were cords used and attached at one end to the runner a.

Having described my invention, what I claim is—

1. In an umbrella or the like, the combination of a rib, a stretcher therefor, a projection upon said stretcher, a stay pivoted at one end near the extremity of the rib and at the other end upon the umbrella stick, and a shoulder upon said stay adapted to be engaged by the projection upon the stretcher, to prevent the rib turning backwardly; substantially as described.

2. In an umbrella or the like, the combination of a rib, a stretcher therefor, a projection upon said stretcher, and a stay pivoted at one end near the extremity of the rib and at the

other end upon the umbrella stick, said stay having therein a slot the sides of which embrace the stretcher, the material at the rear of said slot forming a shoulder adapted to be
5 engaged by the projection upon the stretcher to prevent the rib turning backwardly; substantially as described.

In testimony that I claim the foregoing as

my invention I have signed my name, in presence of two witnesses, this 6th day of December, 1893.

JACOB BARNETT.

Witnesses:

AARON H. SCHWARZ,
ANNA S. GREEN.