

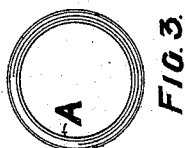
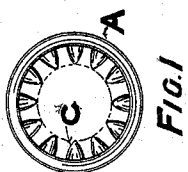
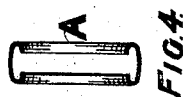
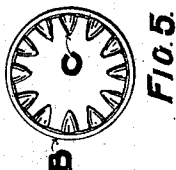
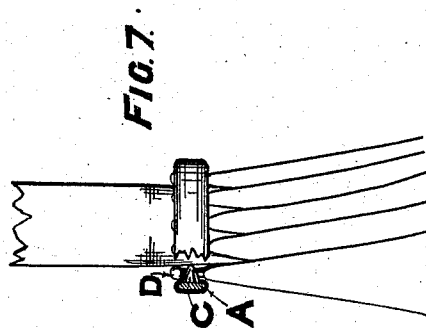
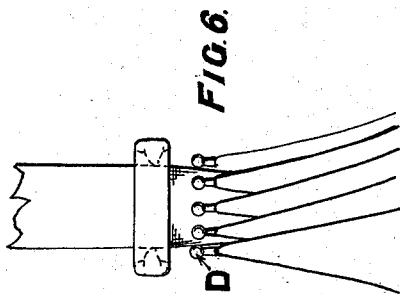
(No Model.)

C. BROMHALL.

RIB TIP HOLDING RING FOR UMBRELLAS.

No. 565,601.

Patented Aug. 11, 1896.



Witnesses

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Inventor
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by

[Signature]
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UNITED STATES PATENT OFFICE.

CHARLES BROMHALL, OF MANCHESTER, ENGLAND.

RIB-TIP-HOLDING RING FOR UMBRELLAS.

SPECIFICATION forming part of Letters Patent No. 565,601, dated August 11, 1896.

Application filed March 23, 1896. Serial No. 584,469. (No model.) Patented in England June 13, 1894, No. 11,514.

To all whom it may concern:

Be it known that I, CHARLES BROMHALL, residing at Manchester, in the county of Lancaster, England, have invented certain new and useful Improvements in Rib-Tip-Holding Rings for Umbrellas, of which the following is a specification.

The invention has been patented in England, No. 11,514, dated June 13, 1894.

In the drawings, Figures 1 and 2 illustrate full-size exterior views of my improved umbrella-rib-tip-holding ring, and Figs. 3, 4, and 5 illustrate the metal and flexible parts separately. Fig. 6 illustrates the improved ring when on the stick or handle of the umbrella and sustained by the flexible lining, and Figs. 7 and 8 illustrate the ring in plan and elevation (partly sectional) when drawn over the "tips."

Referring to Figs. 1 to 8, the exterior part A is, by preference, a thin sheet metal of endless and annularly-channeled form. Within said channeling is the flexible lining B, either sprung and cemented therein or affixed within the metal before the edges are fully turned over, and then, by the further turning over of the edges, securely clamped in the ring. Such lining is formed with pegs, studs, or knobs C, all converging toward the ring-center. The spacing between these pegs corresponds, by preference, to the size of the ribs of the umbrella, and the diameter or circumference of the circle described by the peg or stud points is slightly less than that of the umbrella-stick.

On being placed on the umbrella-stick, which is done either by removing the handle or before the frame is applied, the ring, owing to the flexible lining, remains at whatever point it is released, (see Fig. 6;) but it is readily moved up or down with a slight rubbing ac-

tion of the rubber studs or pegs, whose points give way or fold under the movements of the ring. Similarly the ring is also readily slipped over the tips D, as these latter by their position and looseness readily select and pass through the spaces between the pegs C as the ring is pushed over them.

When in position, the improved ring cannot possibly of itself come off the ribs, as the pegs or studs C, lying behind the tips D, (see Fig. 7,) form an abutment and effectually lock it thereon until it is deliberately pulled off by hand.

As applied to existing umbrellas or parasols with the stick and handle in one piece the improved ring may be split or formed in halves and hinged together, with a snap or other fastening to secure the unhinged ends. With umbrellas having small or slender handles the ring may be threaded onto the stick.

I claim—

1. In combination in a ring for holding umbrella-ribs, a main ring of hard substances, and a lining of flexible material having projections forming recesses between them to hold the ribs, said flexible lining being adapted also to grip the handle and hold the ring at any desired point.

2. In combination in a ring for holding umbrella-ribs, a main ring with flanges forming a groove between them, a lining in said groove and of flexible material and having also flexible studs adapted to receive the ribs between them and to yieldingly grip the stick, substantially as described.

CHARLES BROMHALL.

Witnesses:

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