

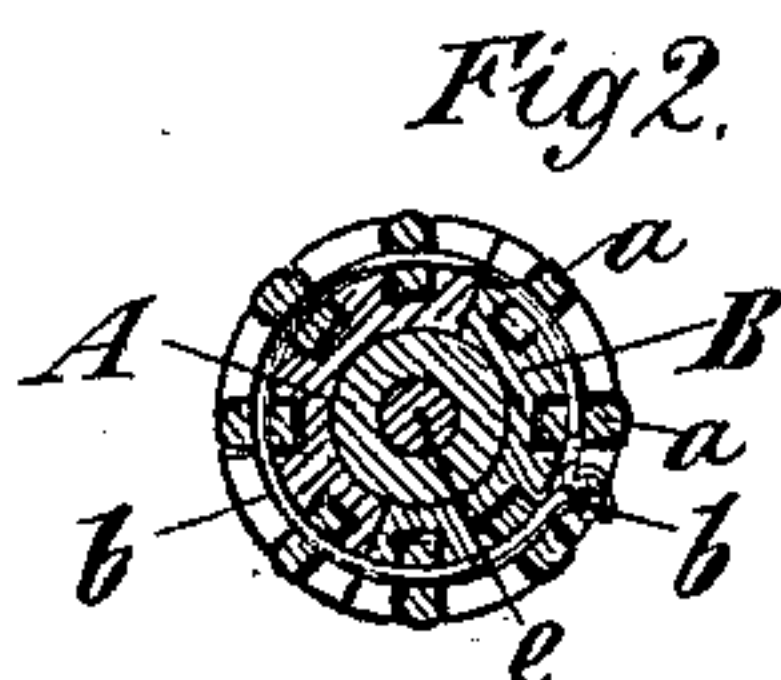
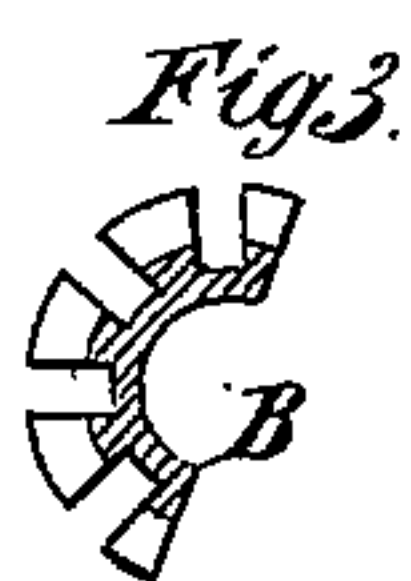
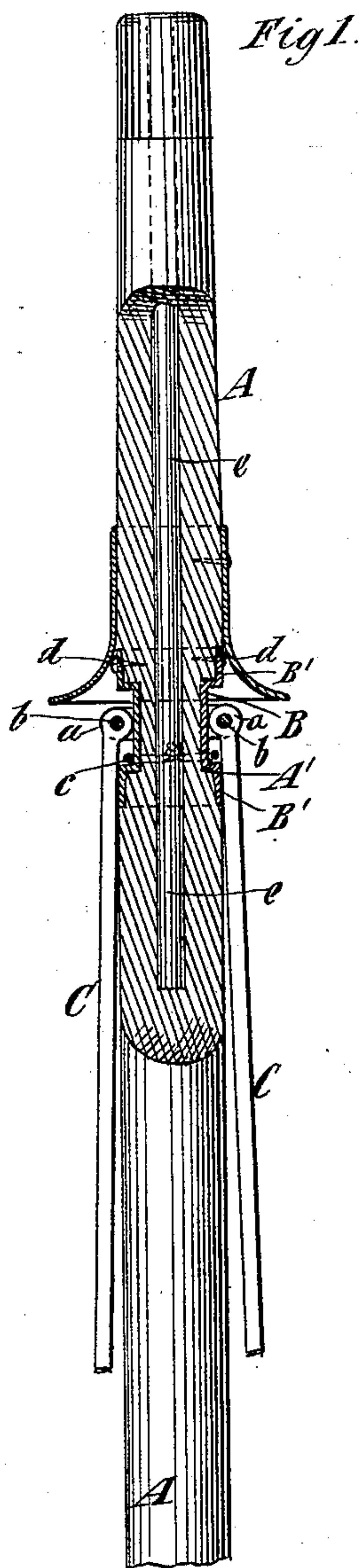
(No Model.)

J. STEWART.

UMBRELLA.

No. 285,702.

Patented Sept. 25, 1883.



Witnesses

Thos. Haynes
C. Sundgren

Inventor

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By his Attorneys
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UNITED STATES PATENT OFFICE.

JOHN STEWART, OF NEW YORK, N. Y.

UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 285,702, dated September 25, 1883.

Application filed December 9, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN STEWART, of the city of New York, 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.

My invention relates to umbrella-sticks which have their notches fitted in annular grooves or recesses, thus enabling the size or diameter of the umbrella at the notch and when closed to be reduced. Where the notch fits in a groove or recess, as above described, both it and the stick cannot be made in one piece; and my invention therefore consists in the combination, with an umbrella-stick having an annular groove or recess, of a notch divided axially or composed of two or more semicircular or segmental sections and secured in said groove or recess.

In the accompanying drawings, Figure 1 represents a sectional view of a portion of an umbrella embodying my invention. Fig. 2 represents a transverse section of the stick, notch, and ribs; and Figs. 3 and 4 represent the two halves or sections of the notch separately.

Similar letters of reference designate corresponding parts in all the figures.

A designates the stick of the umbrella, and B the notch. In the stick is formed an annular groove or recess, A', which reduces the diameter of the stick at that point, and in said groove or recess I secure the notch B. As here represented, the notch has, at the ends, annular portions B', of larger diameter, which surround or receive within them the portions of the stick on each side of or above and below the recess or groove. The notch is composed of two semicircular or segmental sections, (shown in Figs. 3 and 4); but it might have more than two sections.

C designates the ribs, the ends *a* of which are placed in the notch B and secured by a

wire, *b*, in the usual way. This wire aids in securing the two parts or sections of the notch in place in the groove or recess A'; but in order to additionally and firmly secure them, I may solder them together around the stick, or secure them by a wire band, *c*, as shown in Fig. 1, or by tacks or nails *d*, as also shown in Fig. 1, or in any other suitable manner. The formation of the groove or recess in the stick necessarily reduces the strength of the stick, and to strengthen the stick I may insert centrally therein a metal pin or wire, *e*, extending as far as may be necessary above and below the notch, as shown in Fig. 1. When the notch is secured in the groove or recess in the stick, as herein described, the eyes or perforated ends *a* of the ribs C may advantageously be formed so that they project on the inner sides of the ribs only, and when closed the ribs will hug the stick very closely, as shown, and the umbrella will be but little larger in size than the stick. My invention is of course applicable to sun-umbrellas and parasols. The construction of the notch of segmental sections is desirable, because thereby I secure all the advantages of making the umbrella small at the notch, and I still have a strong stick, which would not be the case if the stick were divided at the notch and the latter made solid.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, with an umbrella-stick provided with an annular groove or recess near the tip, of a notch fitting and secured in said groove or recess, and divided or composed of semicircular or segmental sections, substantially as described.

JOHN STEWART.

Witnesses:

FREDK. HAYNES,
ED. L. MORAN.