

J. J. HIGGINS.
UMBRELLA-RUNNERS.

No. 189,859.

Patented April 24, 1877.

Fig. 1

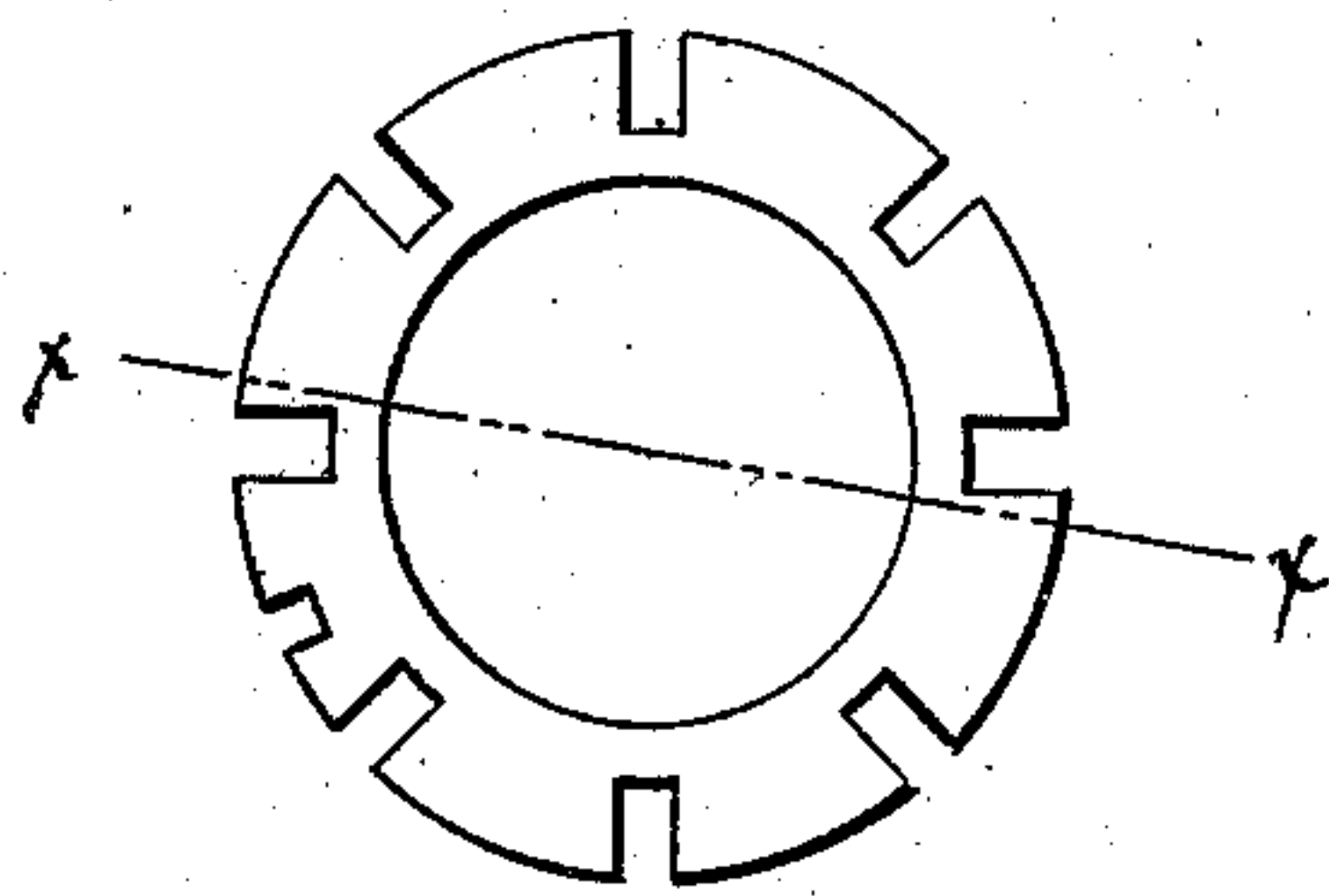
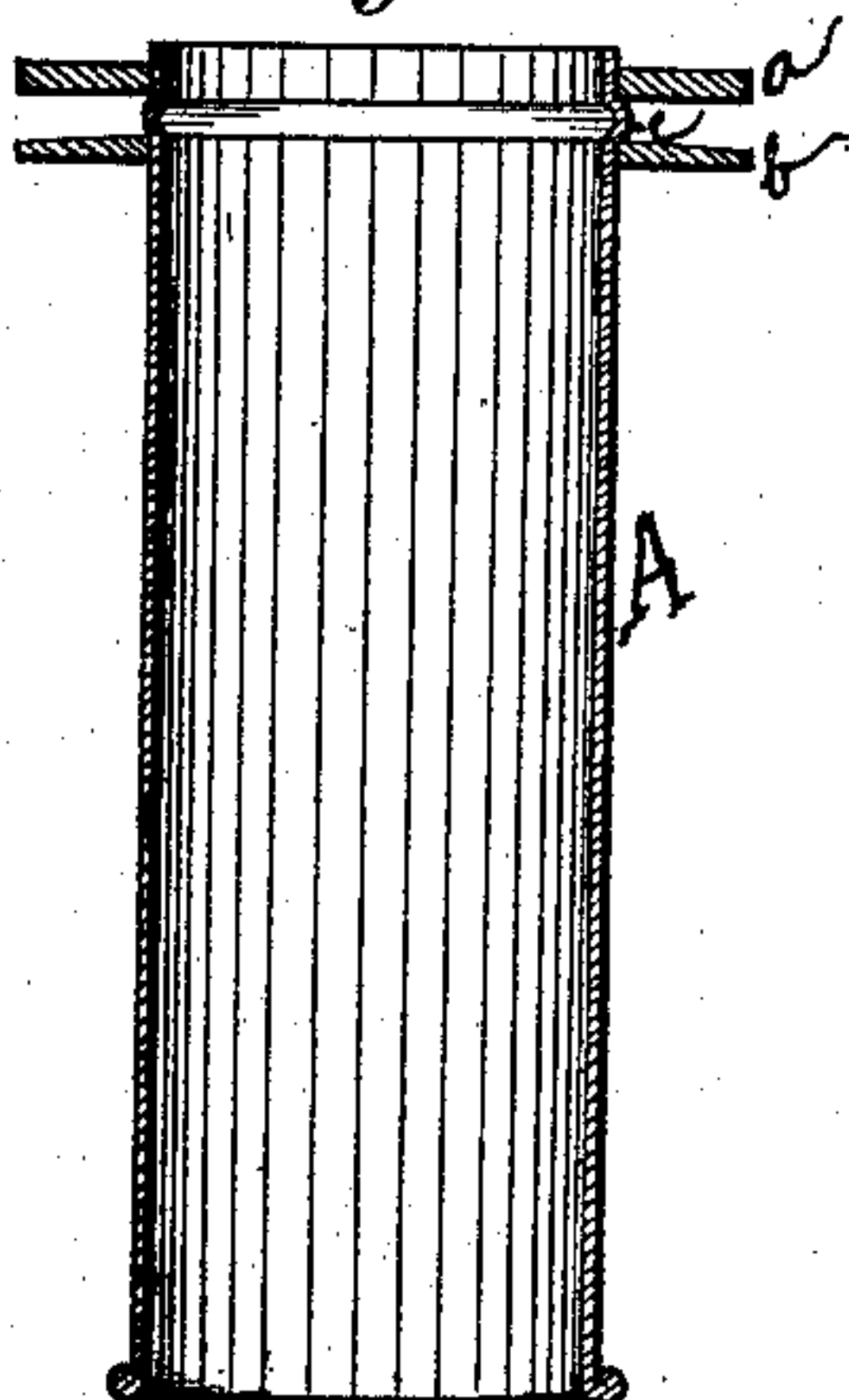


Fig. 2.



Witnesses:

William H. Ribbet
Harmon J. Ennis

Inventor:

John L. Higgins

UNITED STATES PATENT OFFICE.

JOHN J. HIGGINS, OF NEW YORK, N. Y.

IMPROVEMENT IN UMBRELLA-RUNNERS.

Specification forming part of Letters Patent No. **189,859**, dated April 24, 1877; application filed December 21, 1876.

To all whom it may concern :

Be it known that I, JOHN J. HIGGINS, of the city and county of New York, State of New York, have invented an Umbrella Runner or Notch, of which the following is a specification :

In the accompanying drawing, Figure 1 represents a top view ; and Fig. 2, a longitudinal sectional view on line *xx* of Fig. 1.

In the runner which I have invented, the head is composed of two separate and distinct flat annular disks of metal, from one of which, at least, the nicks for the reception of the stretchers or ribs are stamped or cut out. These two disks of metal are then fastened upon a tube, technically termed the "barrel," an interspace being left, constituting the groove for the reception of the wire.

To insure this interspace, either an annular enlargement or bead is formed upon the barrel, or projections are formed thereon at intervals which separate the said disks, or a circlet of wire or other suitable device is interposed for the purpose.

In the formation of the disks the end of the barrel may be caused to form one of them by being flanged over for such purpose.

This construction of runner-head likewise applies to that of the top notch, and to parasols as well as to umbrellas.

In Fig. 2, which represents a section of a runner so made, *A* is the runner, *a* and *b* the two disks forming the head, and *c* the interposed bead.

I am aware of certain constructions of runners for which Letters Patent 76,259, March 31, 1868; 90,883, June 1, 1869; 116,767, July, 1871; 135,321, January 28, 1873; 140,920, July 15, 1873; and No. 34, 1875, English, have been issued, and these I do not claim; but

What I do claim is—

An umbrella runner or notch having the head, to which the stretchers or ribs are attached, formed of two flat annular disks or rings of metal secured to the barrel, and separated from each other by an interposed bead or other projection on the barrel, or by a circlet of wire, or other metallic form, substantially as described.

JOHN J. HIGGINS.

Witnesses:

WILLIAM H. RIBLET,
MORTIMER J. ENNIS.