

O. M. Smith.

Runners for Umbrellas.

N^o 76259

Patented Mar. 31, 1868.

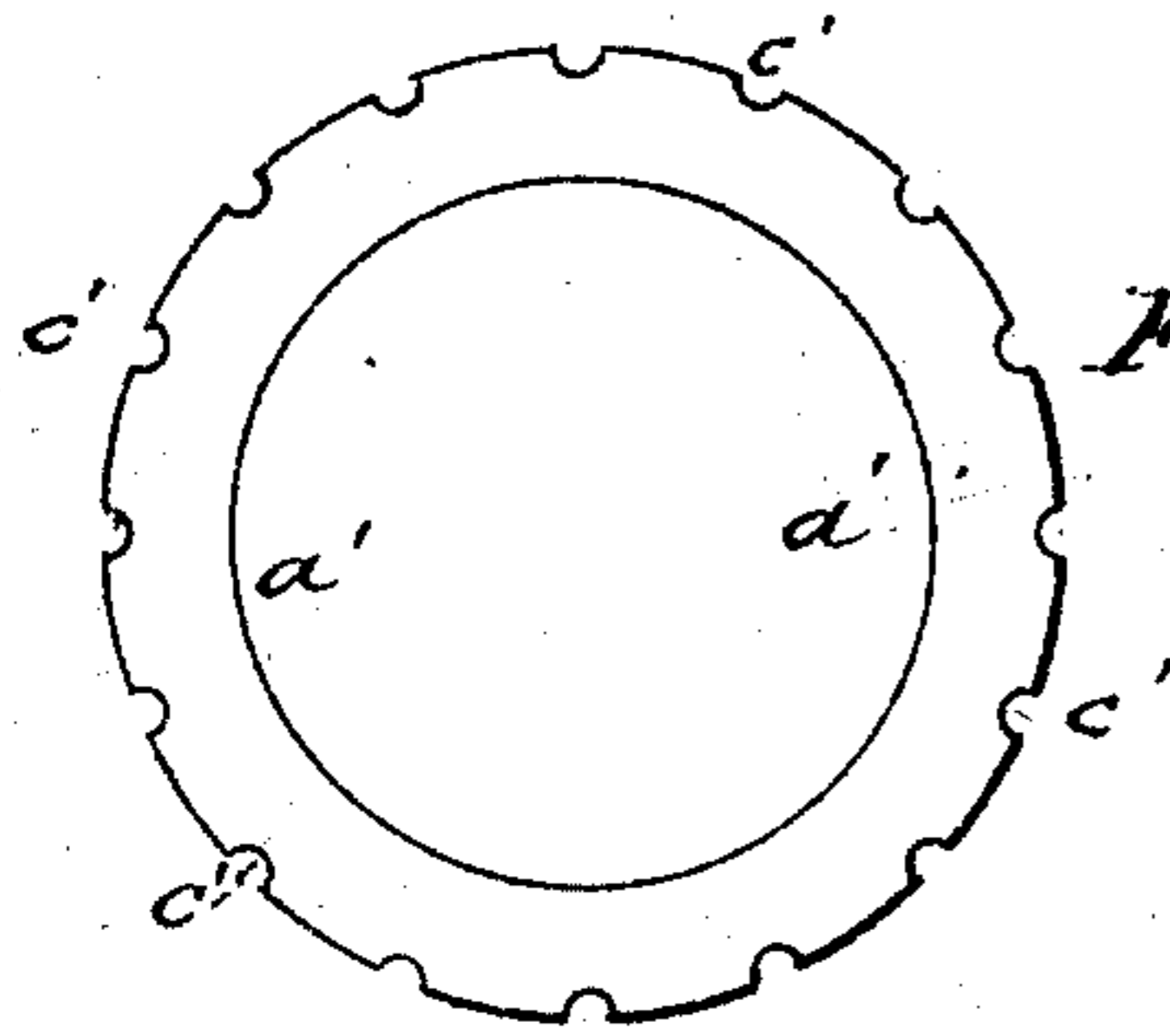


Fig. 4.

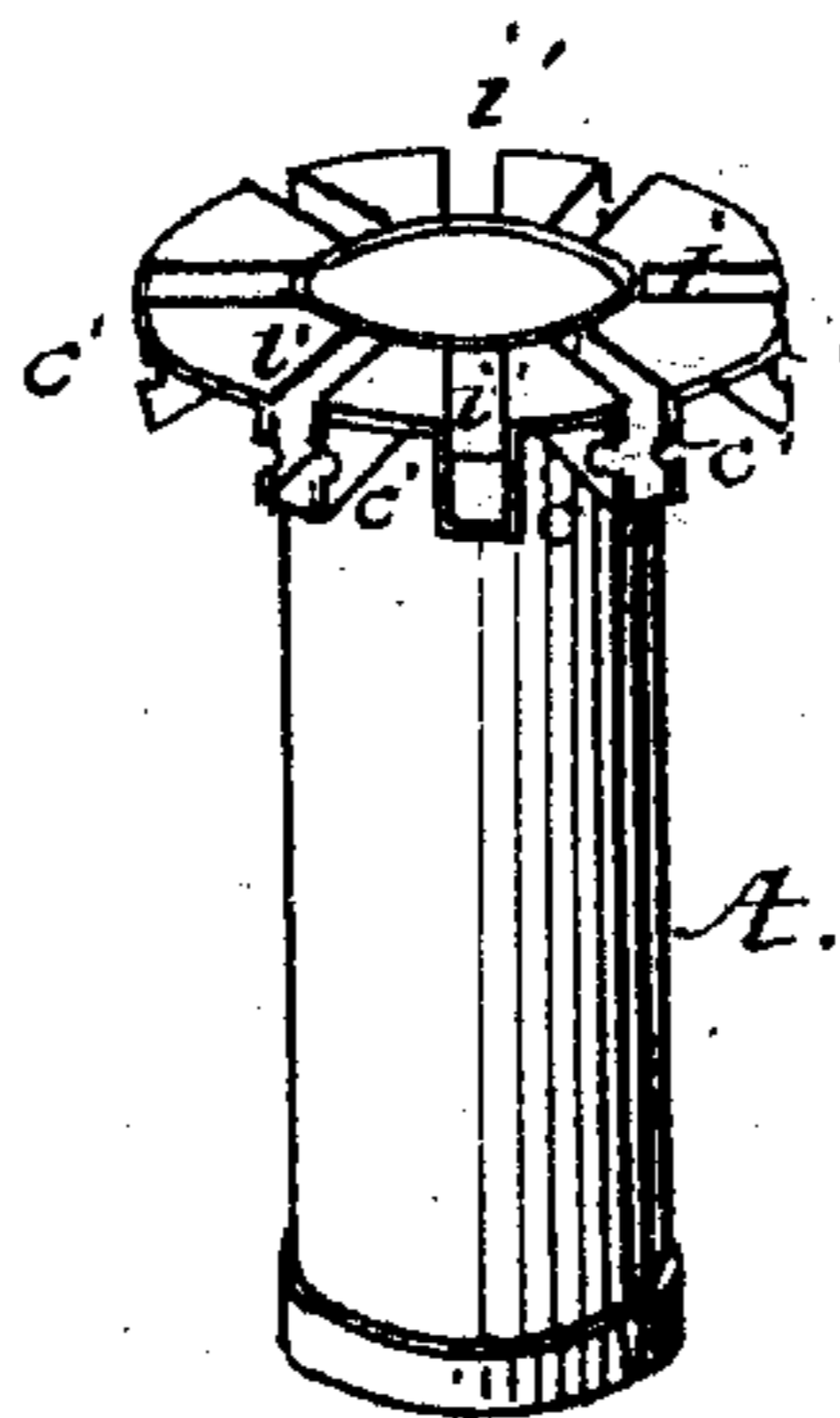


Fig. 1.

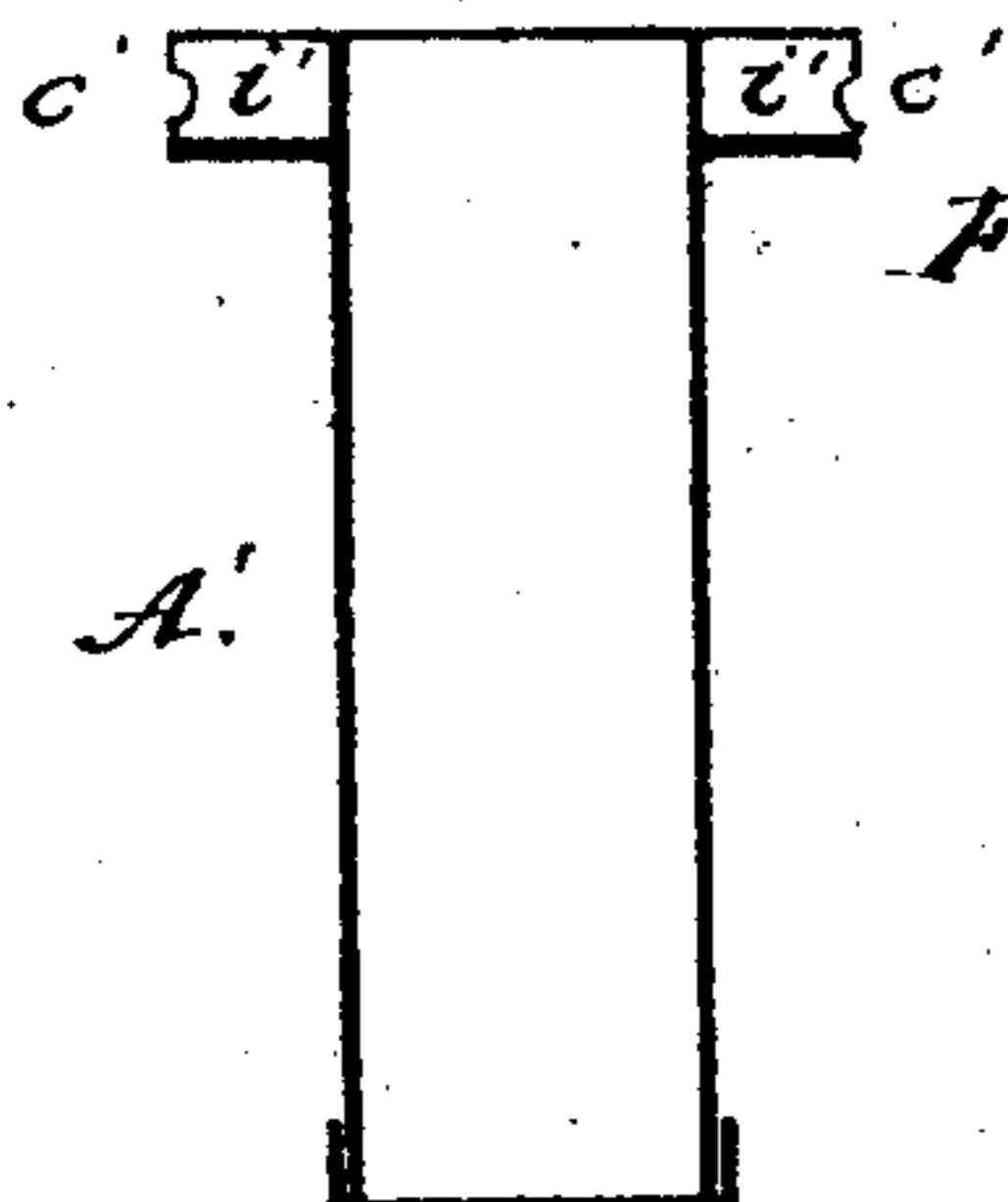


Fig. 2.

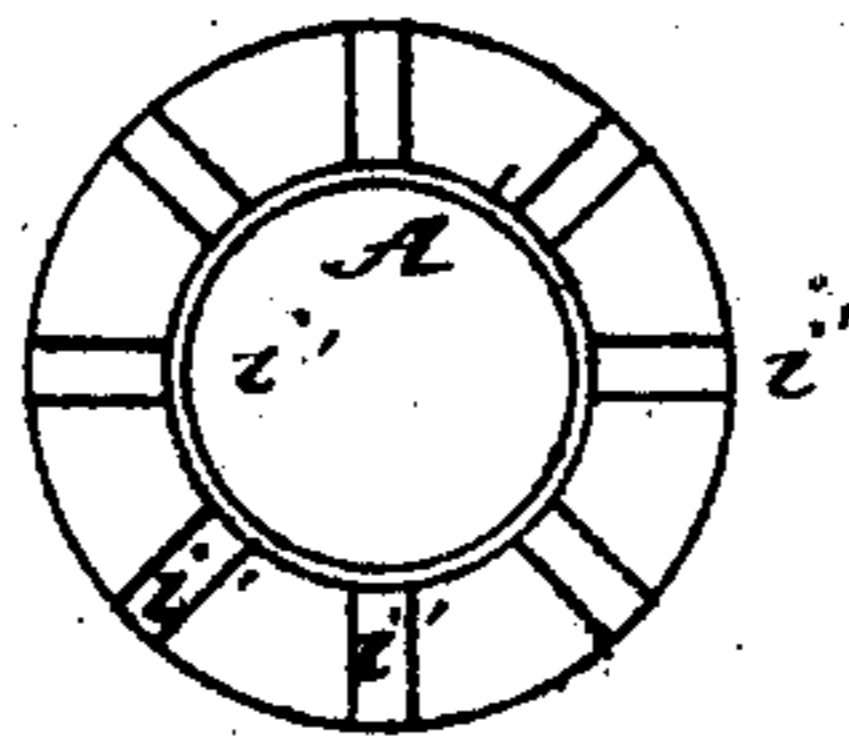


Fig. 3.

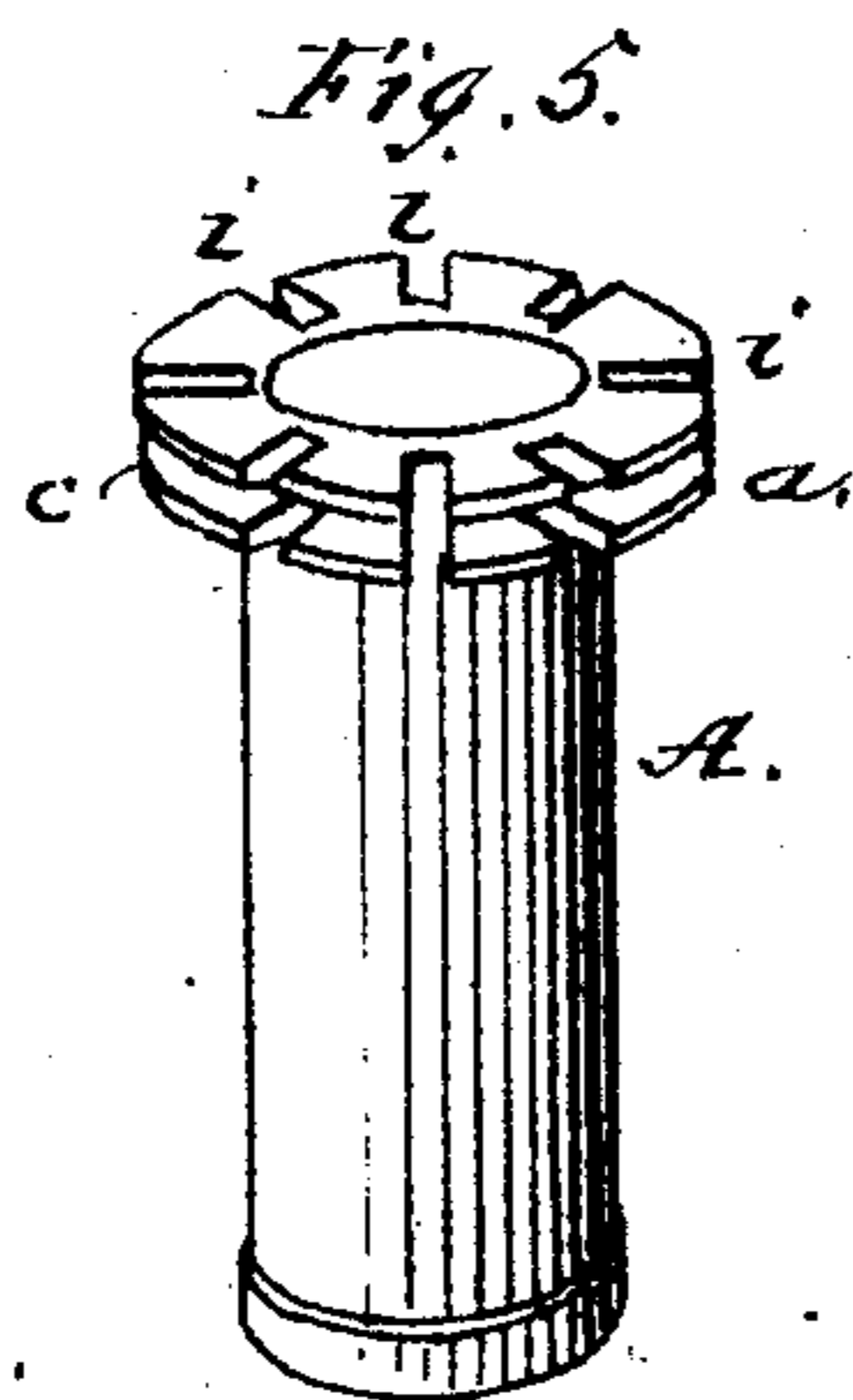


Fig. 5.

Witnesses;

Wm. Albert Steel.
John Parker

O. M. Smith
By his attorney
H. Howson

United States Patent Office.

ORREN M. SMITH, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO S. W. EVANS AND A. AGNEW, OF THE SAME PLACE.

Letters Patent No. 76,259, dated March 31, 1868.

IMPROVEMENT IN RUNNERS FOR UMBRELLAS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ORREN M. SMITH, of Philadelphia, Pennsylvania, have invented an improvement in Umbrella-“Runners” and “Notches;” and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists of a tube, to which is connected a metal ring, made from an annular plate, recessed and bent, as fully described hereafter; the “runner” or “notch” thus constructed, being much cheaper, and more readily and quickly manufactured than those made in the ordinary manner.

In order to enable others skilled in the art to make and apply my invention, I will now proceed to describe the manner of constructing the same, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a perspective view of an umbrella “runner” constructed according to my improvement.

Figure 2, a sectional elevation of the “runner.”

Figure 3, a plan view of fig. 2.

Figure 4, a plan view of a metal plate, from which a portion of the “runner” or notch is made; and

Figure 5 is a perspective view of a “runner” of the ordinary construction.

The ordinary “runner” consists of a metal tube, A, (fig. 5,) at the upper end of which is an annular projection or ring, *a*, and in the edge of the latter is a groove, *c*, and a series of radial slots, *i i*, the said groove being for the reception of a wire, which passes through openings in the ends of ribs or rods projecting into the slots *i i*.

The “notches” or pieces to which the upper ends of the ribs of the umbrella are connected, are made in the same manner as the runners, except that the tube A is considerably shorter.

Umbrella-runners and notches made in this manner are expensive, inasmuch as the casting and cutting of the rings *a* require much time and labor, and occasion considerable waste of material.

To make my improved runner or notch, I first stamp, from a plate of thin metal, an annular piece or ring, *a'*, having in the edge a series of recesses, *c'*. This ring is then placed between suitably-formed dies, by which, at one blow, it is bent to the form shown in fig. 1, where it is represented upon the end of the tube A', to which it is soldered. The recesses *i'*, formed by the bending of the ring, serve for the reception of the ends of the “ribs” or “rods,” while the wire by which these rods are secured lies within the recesses *c'*, which occupy the position shown in the drawing.

Owing to the peculiar manner in which the annular plate *a'* is bent to form the ring, the latter is sufficiently strong to resist all the strains imparted to it, while it may be much more readily and quickly made, and with much less expenditure of time and labor, than the usual solid metal ring. The runner or notch thus made is consequently much cheaper than those of the ordinary construction.

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

A “runner” or “notch,” consisting of a tube, A, and a bent plate or ring, *a'*, constructed and secured to the tube, substantially as described.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

ORREN M. SMITH.

Witnesses:

CHAS. E. FOSTER,

W. J. R. DELANY.