

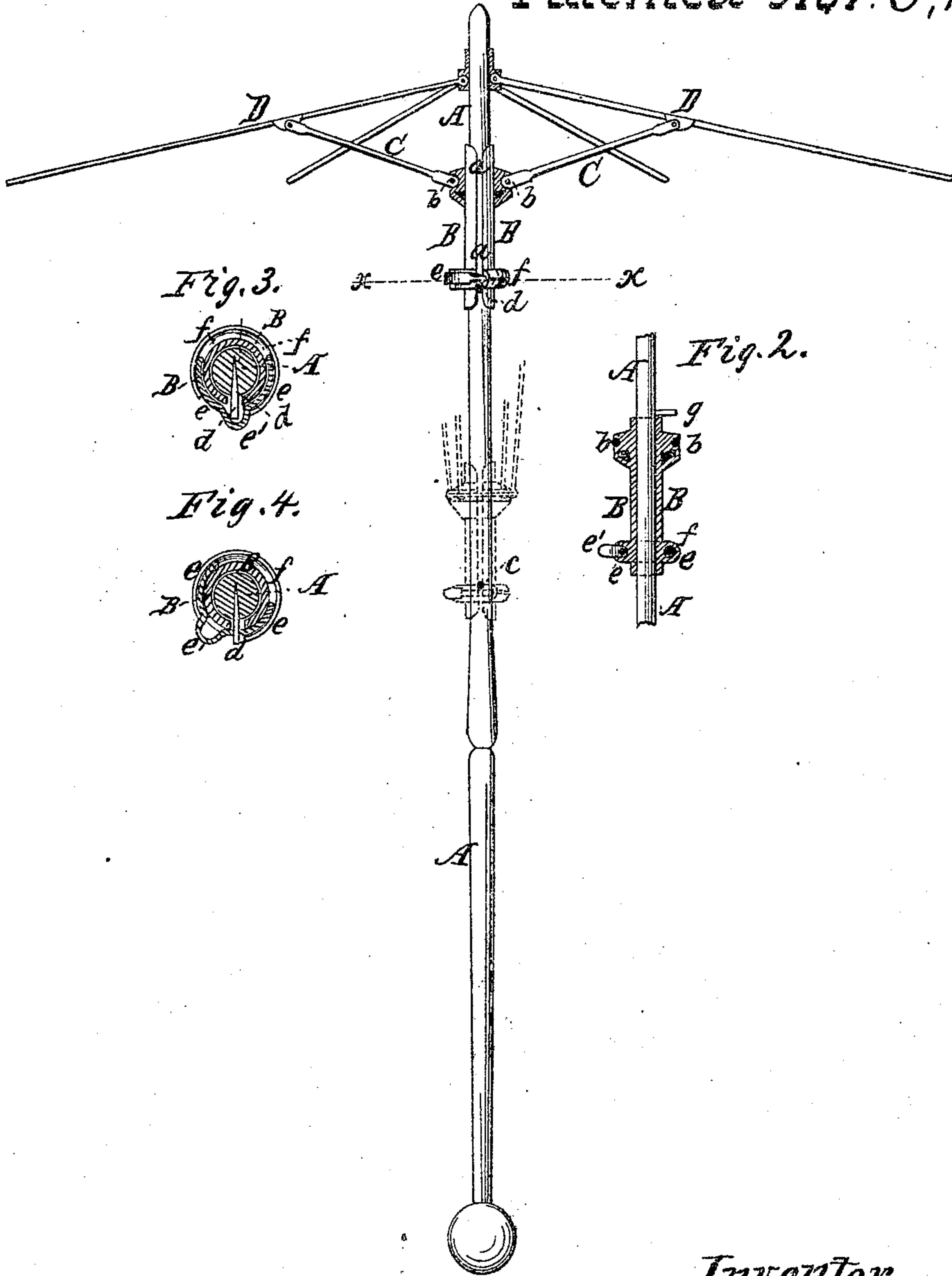
H. Kurth.

Umbrella.

N<sup>o</sup> 70579

Fig. 1.

Patented Nov. 5, 1867



Witnesses.

Theo. Incke.

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# United States Patent Office.

HENRY KURTH, OF BROOKLYN, NEW YORK.

*Letters Patent No. 70,579, dated November 5, 1867.*

## IMPROVEMENT IN UMBRELLA-RUNNERS.

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, HENRY KURTH, of Brooklyn, in the county of Kings, and State of New York, have invented a new and improved Parasol and Umbrella-Runner; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 represents a side view, partly in section, of my invention.

Figure 2 is a detail vertical sectional view of the same.

Figures 3 and 4 are detail horizontal sectional views of the same, showing the parts in different positions, the plane of section being indicated by the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

This invention relates to a new manner of arranging the fastening of the sheet-metal runners of umbrella or parasol-frames, so that the central stick will not be weakened by slots or recesses cut into it, as by the ordinary method.

The invention consists in the use of a slotted runner, arranged in combination with two small pins, which are fixed stationary in the stick. The slot of the runner fits over and around one of the said pins, when the umbrella is being closed or opened, and has a sleeve which can be turned so as to lock it over or under one of the said pins whenever desired. The ordinary method of fastening the runner was to cut a recess in the upper and lower parts of the stick, and to insert a spring in each of the said recesses. This spring had to be held in place by a small pin fitted through the cheeks of the recess, and thus by the recess and by the pins the stick is very much weakened. Furthermore, the springs could easily get out of order. My invention is designed to overcome these difficulties, and to provide a strong umbrella or parasol-frame.

A represents the stick of an umbrella or parasol, made of suitable material and construction. B is the runner, made as usual, but split so as to form a slot, *a*, as shown, said slot being vertical, and extending from the upper to the lower end of the runner. The wire *b*, which holds the stretchers C, by which the nibs D are braced, unites the runner and prevents it from being bent open. In the stick A are fixed two pins, *c* and *d*, which are in line with the slot *a*, and which are at those heights at which the springs are usually fastened in the stick. *e* is an annular or bent wire or metal plate (see figs. 3 and 4,) fitted in the groove *f*, formed in a bead around the runner, as shown. The said bead is interrupted by the slot *a*. The wire *e* has a bent-out portion, *e'*, which, when the wire is turned in its groove so that the portion *e'* is over the slot *a*, (fig. 3,) will fit over the pins *c* or *d*, and thus, when the part *e'* is thus in line, the runner can be moved upwards over the pin *d*, (as in fig. 1,) until its upper edge strikes a pin, *g*, (as in fig. 2.) The nibs are then spread, and the wire *e* will be just over the pin *d*, so that when it is turned so that the part *e'* will be away from the slot *a*, (fig. 4,) it will lock the runner to the pin *d*, preventing the nibs from being closed. Only if the wire *e* is turned in the position of fig. 3 again can the nibs be closed. The runner will then slide over the lower pin *c* until the ring or wire *e* is below the same; then the wire can be turned again to lock the nib in the closed position (as shown by red lines in fig. 1.) The corners of the runner at the ends of the slot *a* are bevelled off, so that the slot *a* is flaring at the ends for the purpose of guiding the pins *c* and *d* into the slots, even if the runner should not work quite true. When the runner is locked to one or the other of the pins *c* or *d* by the wire *e*, it can only be disengaged by turning the wire; no other motion will disengage it, as the wire cannot be so easily bent or broken, the exposed portion of it being only as long as the slot *a* is wide.

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

An umbrella-runner provided with the locking device consisting of the supporting piece *f*, locking-ring *e*, in combination with pins C and *d* in the handle, substantially as described.

HENRY KURTH.

Witnesses:

WM. F. McNAMARA,  
ALEX. F. ROBERTS.