

T. McCreary, Umbrella.

No 94017.

Patented Aug 24/1869

fig. 1.

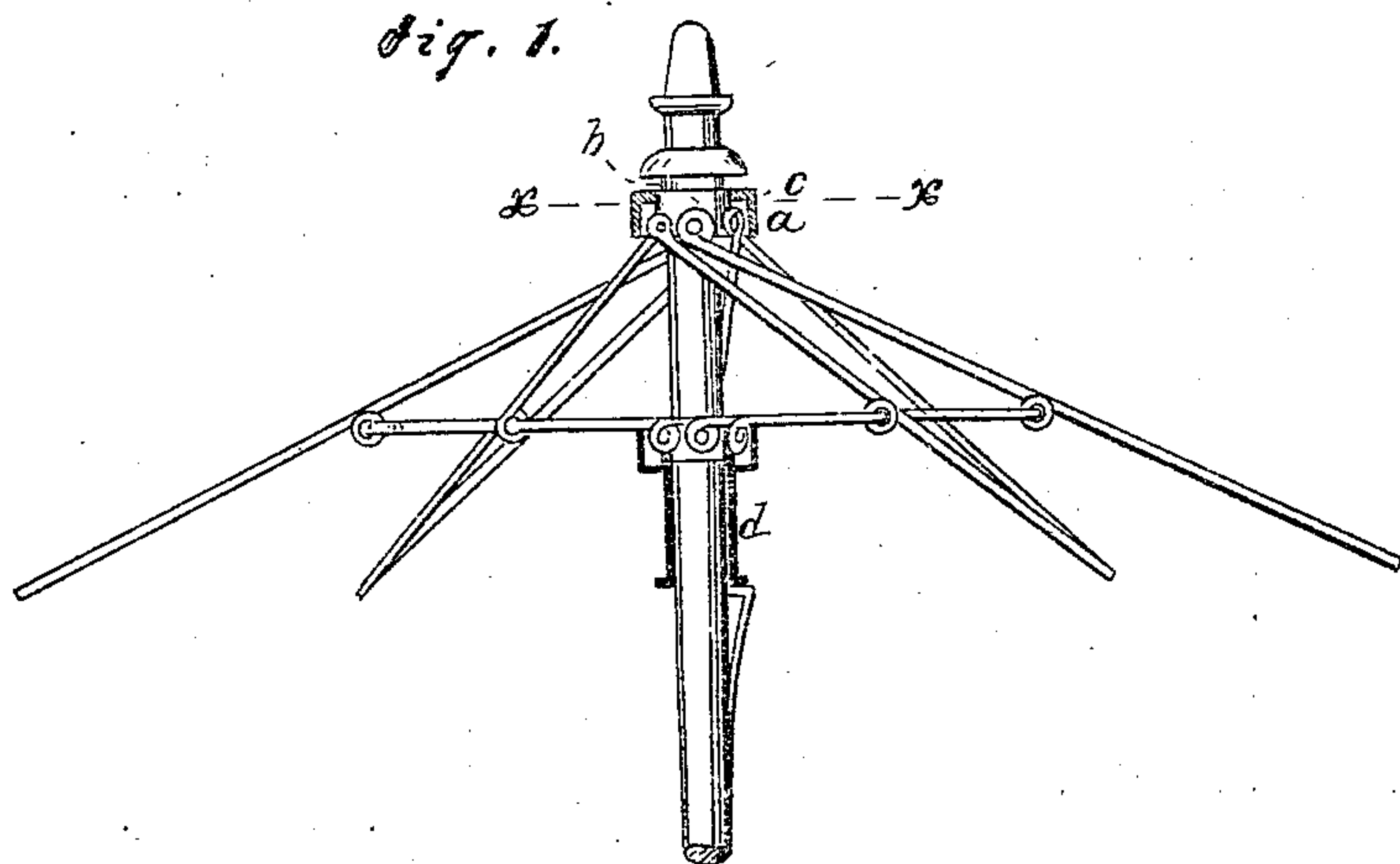


fig. 2.

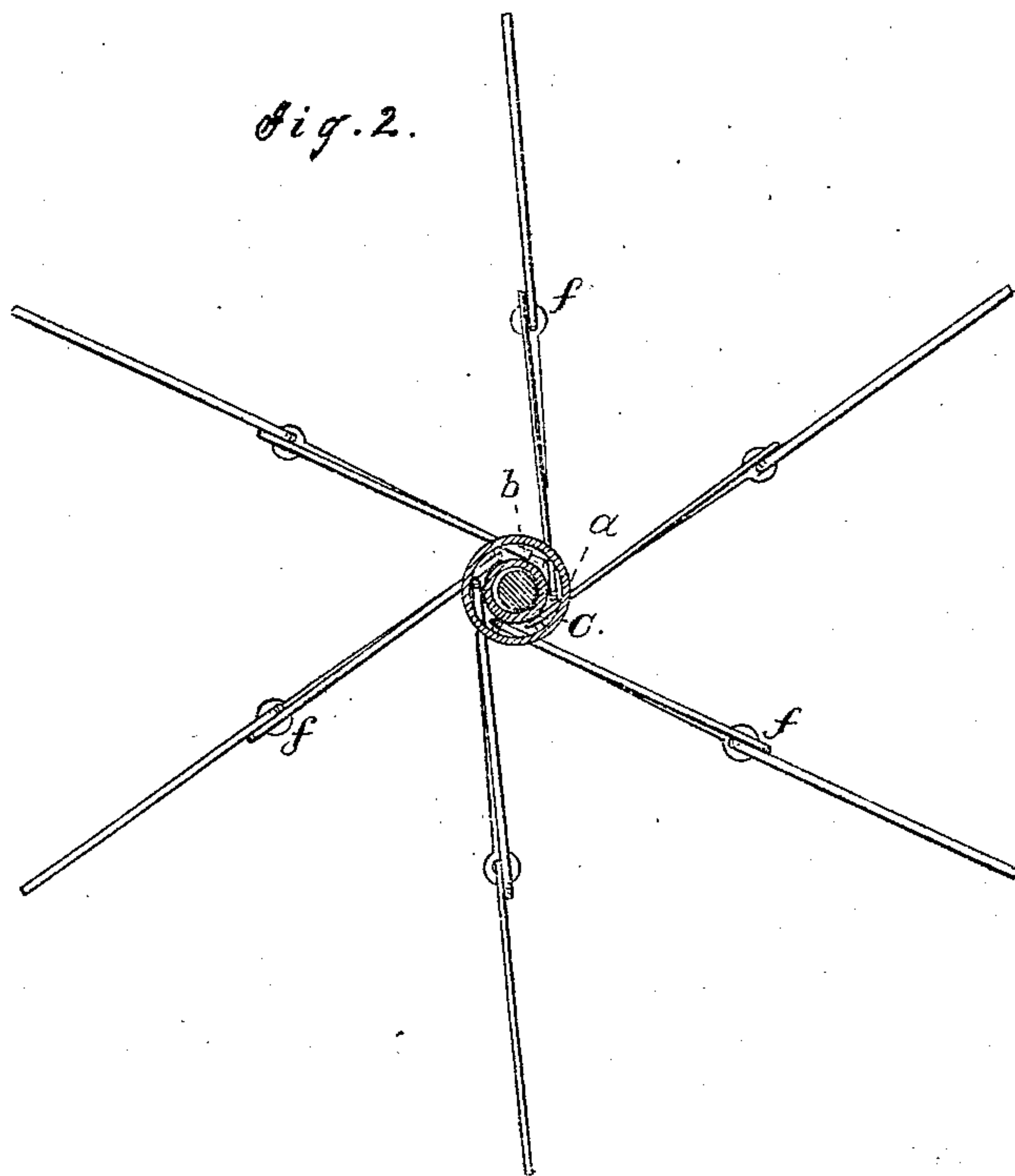
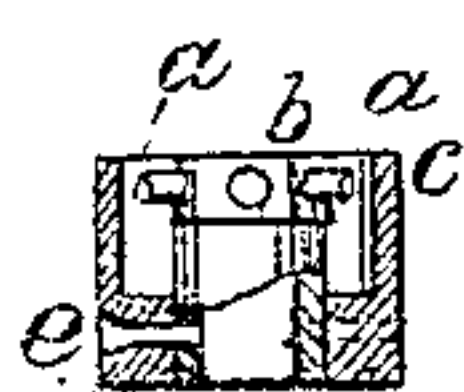


fig. 3.



Witnesses:

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Inventor:

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United States Patent Office.

THOMAS McCREARY, OF MATTEAWAN, NEW YORK, ASSIGNOR TO HIMSELF, GEORGE M. SULLIVAN, AND JOHN McCREARY, OF SAME PLACE.

Letters Patent No. 94,017, dated August 24, 1869.

IMPROVEMENT IN 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, THOMAS McCREARY, of Matteawan, in the county of Dutchess, and State of New York, have invented a new and useful Improvement in Umbrellas; 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 drawing, forming part of this specification.

This invention relates to improvements in the construction of frames for umbrellas, whereby it is designed to provide a more simple and durable construction than the present arrangement, and also better adapted for restoring the ribs or braces when broken.

Figure 1 represents a sectional elevation of the rib and brace-holding devices, showing also the staff-ribs and braces;

Figure 2 represents a horizontal section, taken on the line *x x* of fig. 1; and

Figure 3 represents a modified arrangement of the runner and top notch.

Similar letters of reference indicate corresponding parts.

For connecting the ribs to the top notch upon the handle and the braces to the runner, I construct the said top notch and runner with radial pins *a*, projecting from the sleeve or ring *b*, through which the handle passes, and I bend the ends of the ribs and braces to form eyes thereon, which eyes I slip on the said pins, as shown in the drawings, and then place guard-rings or collars *c* around the said sleeve or ring *b* and pins, to prevent the braces or ribs from slipping off.

These guard-rings or collars may be enlarged parts of the runner *d*, or fixed sleeves above the top notch for the ribs, and may be soldered to the rings *b*, after securing the ribs or braces, or they may be detachably connected by screws *e*, as represented in fig. 3.

I propose to make the connections detachable, to

facilitate repairing, or substituting new rings or braces for broken ones, which may be done by disconnecting them by removing the screws and slipping the runner, or other sleeves to which the guard-ring may be attached, away from the pin-holding rings *b*.

By this mode of securing the ribs and braces, I am enabled to use smaller wires, as they are not weakened by flattening and perforating; and to save this flattening and perforating for the connection of the braces to the ribs, I bend the braces around, forming eyes *f*, at the points for the connection of the braces, which I hook into them, closing the hooked ends so as not to become unhooked, as clearly shown.

This mode of securing the ribs and braces is much stronger and more durable than the common way, as well as cheaper.

The holding-rings *b*, with pins, may be formed best and cheapest by casting.

It will be observed that the ribs and braces project tangentially from the point of connection when arranged in this way, instead of radially, as in the old way.

The improvements are also applicable to parasols.

Having thus described my invention,

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

The combination of the holding-rings *b*, provided with radially-projecting pins, the braces and ribs provided with eyes for connection to the said pins, and the guard-rings *c*, either permanently or detachably connected to the holding-rings, substantially as specified.

The above specification of my invention signed by me, this 16th day of June, 1869.

THOMAS McCREARY.

Witnesses:

FRANK BLOCKLEY,
ALEX. F. ROBERTS.