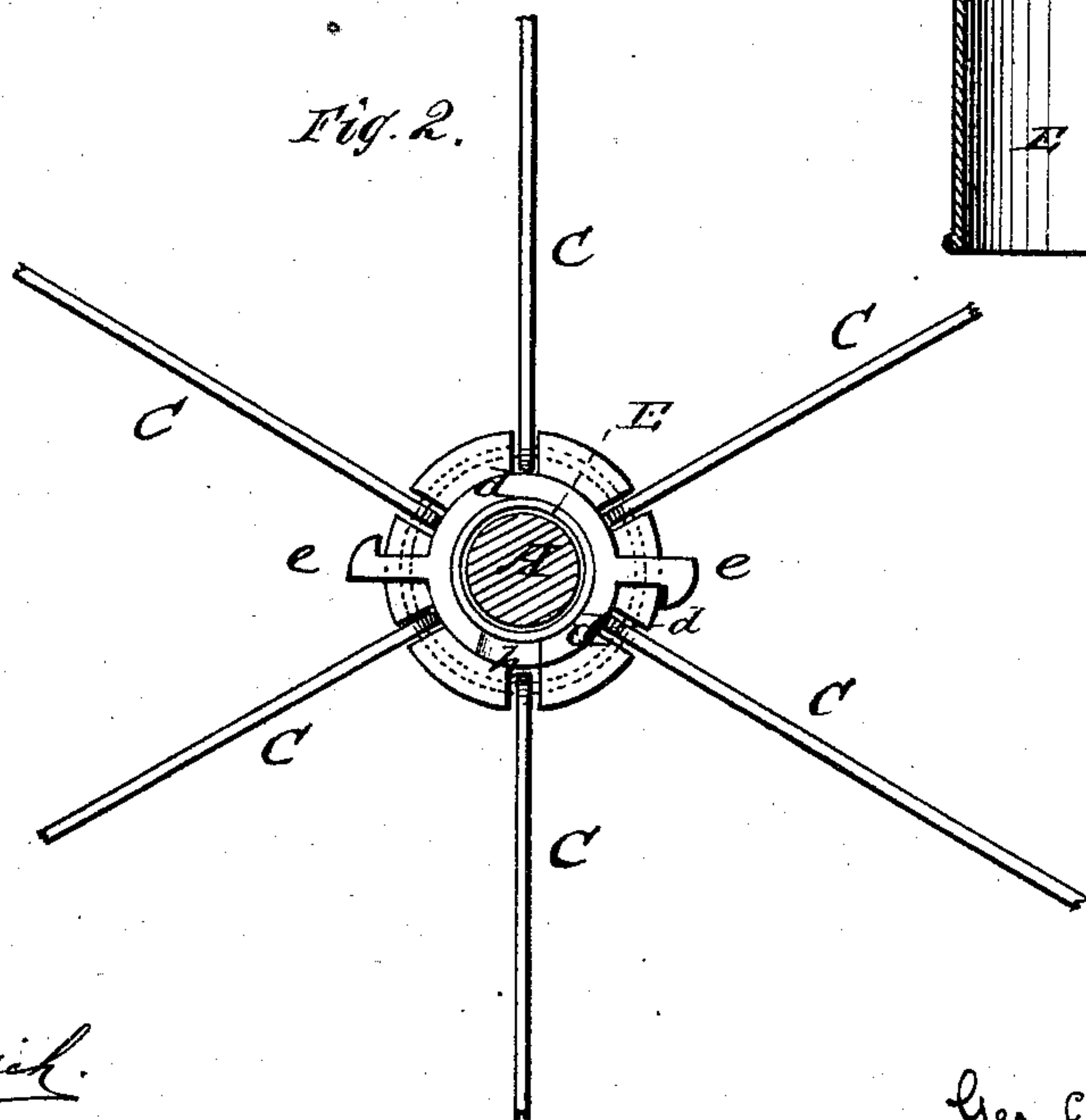
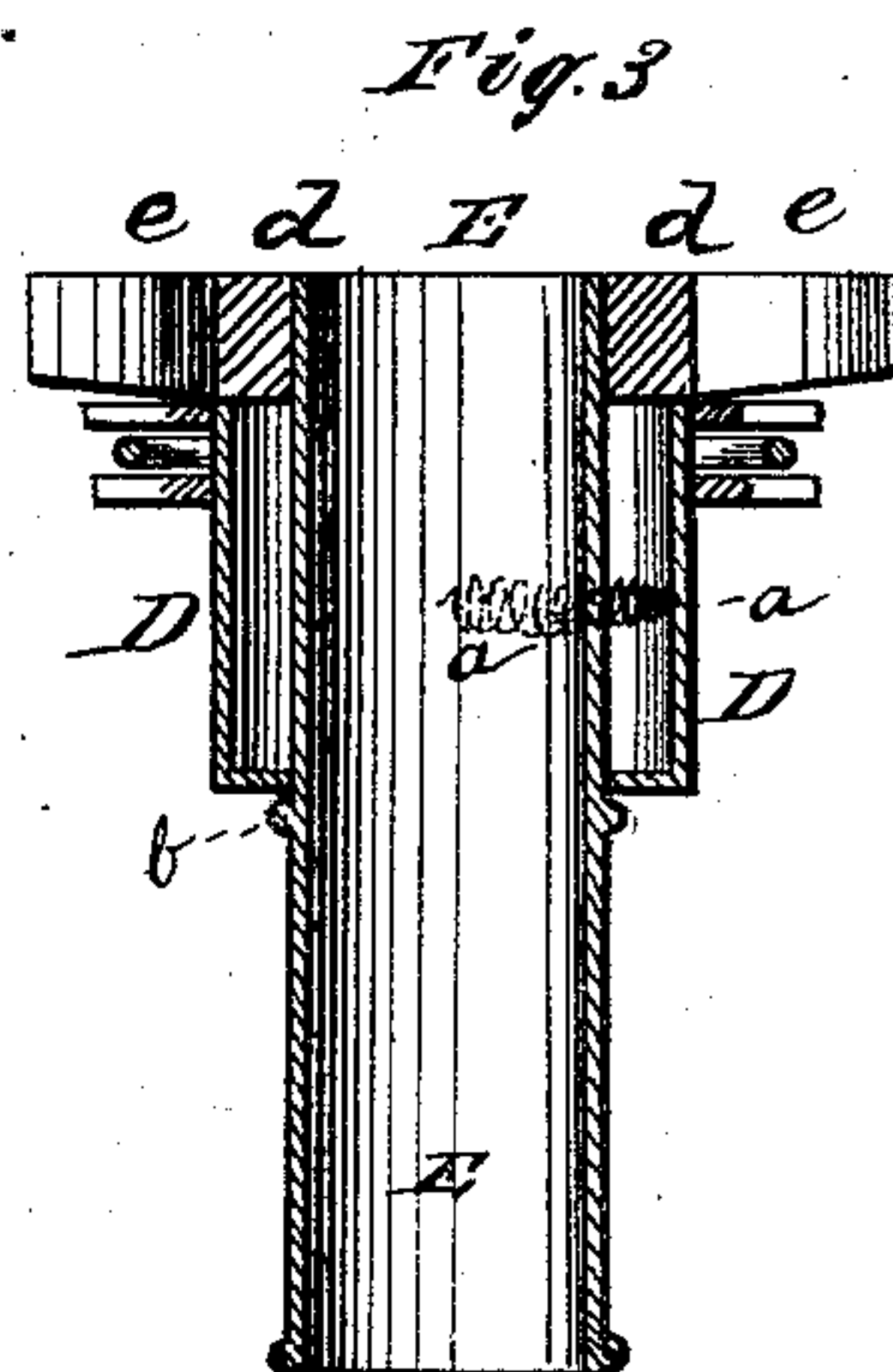
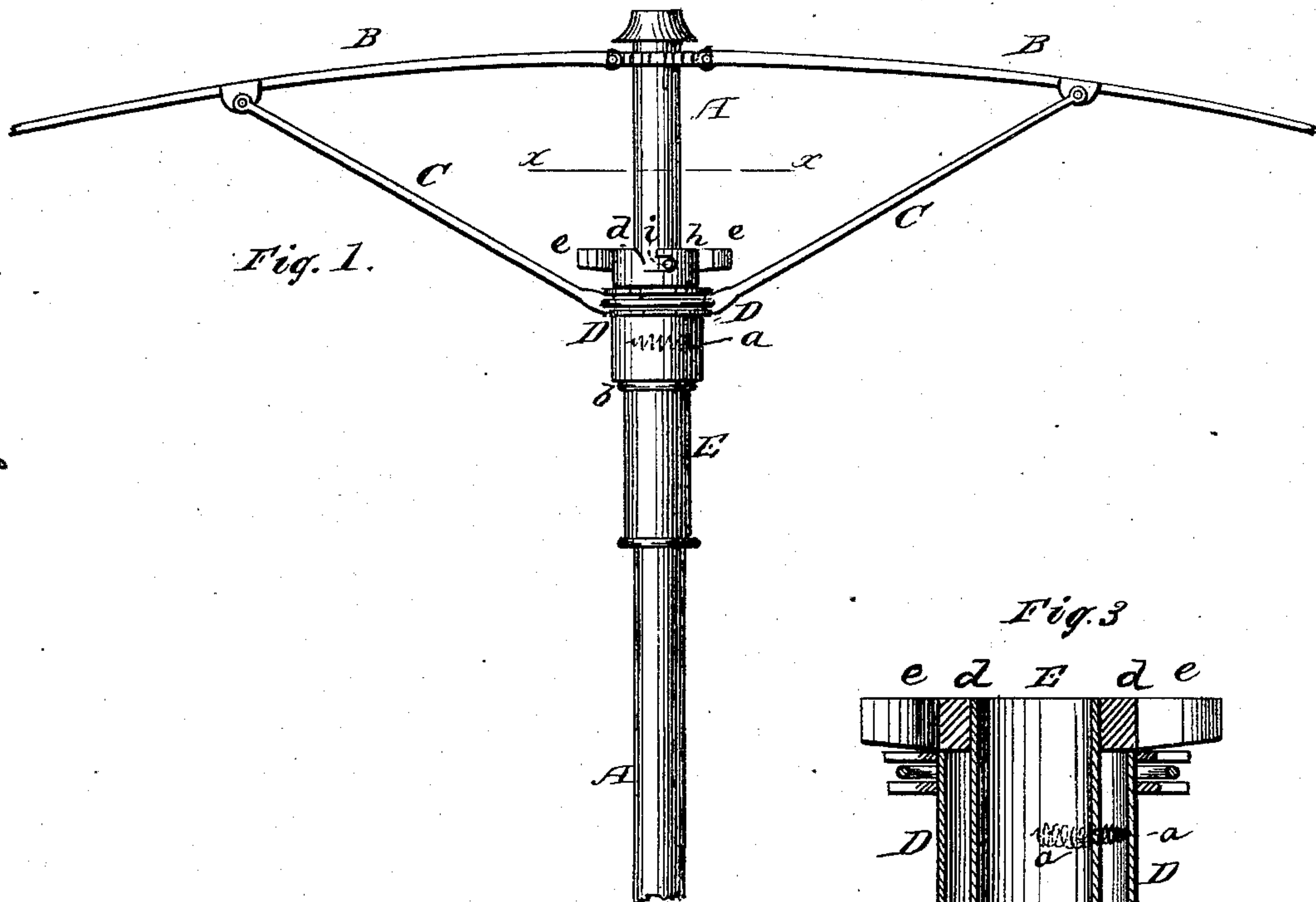


G. E. BRINGMAN.
Umbrella-Runner.

No. 163,146.

Patented May 11, 1875.



WITNESSES:

P. C. Dieterich.

H. C. McArthur.

INVENTOR:

Geo. E. Bringman

per. J. H. Alexander

ATTORNEY.

UNITED STATES PATENT OFFICE.

GEORGE E. BRINGMAN, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN UMBRELLA-RUNNERS.

Specification forming part of Letters Patent No. **163,146**, dated May 11, 1875; application filed April 15, 1875.

To all whom it may concern:

Be it known that I, GEORGE E. BRINGMAN, of city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Umbrella-Runners; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of an umbrella-runner which will keep the umbrella closed when shut without the use of wire spring, pin, or other device on the stick, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation of my invention open. Fig. 2 is a cross-section on line *x x*, Fig. 1; and Fig. 3 is a central vertical section of the tube E and runner D.

A represents an umbrella-stick, provided with the ribs B B and stretchers C C. D is the runner, to which the stretchers C C are attached in the usual manner. This runner is made large enough to receive an interior tube, E, which extends above and below the runner and slides on the stick, it forming, so to say, a part of the runner. The runner D and tube E are connected by a spring, *a*, inclosed within the runner. The runner is confined on the tube between a bead or flange, *b*, at or below the lower end of the runner, and a collar, *d*, at the upper end of the tube above

the runner. The collar *d* is formed with two hooked arms, *e e*, projecting in opposite directions. These hooks or catches clasp over two of the stretchers C when the umbrella is closed, holding the runner in position, and doing away with springs or catches of any kind attached to the stick, leaving the stick free from springs, wires, projections, or holes when closed. There is a bayonet-joint, *h*, at the top of the tube-collar, that closes over a pin, *i*, in the top of the stick to hold the umbrella up when open.

The operation is as follows: To open the umbrella, turn the tube E, and the catches *e* will open, and hold in this position till up; then let go, and the bayonet-joint on tube-collar will engage the pin *i* at the top and hold it. In letting down, turn again, and keep it in position, and when closed the catches will go over the stretchers and keep it closed.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the stick A and stretchers C, the runner D, tube E, spring *a*, and catches *e e*, constructed and arranged to operate substantially as and for the purposes herein set forth.

2. In combination with the subject-matter of the above claim, the bayonet-lock *h* and pin *i* in the stick A, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

GEORGE E. BRINGMAN.

Witnesses:

FRANK C. KROESEN,
JOS. L. KINKESTER.