

(No Model.)

R. CENTER.
FLAG POLE.

No. 289,976.

Patented Dec. 11, 1883.

Fig. 1.

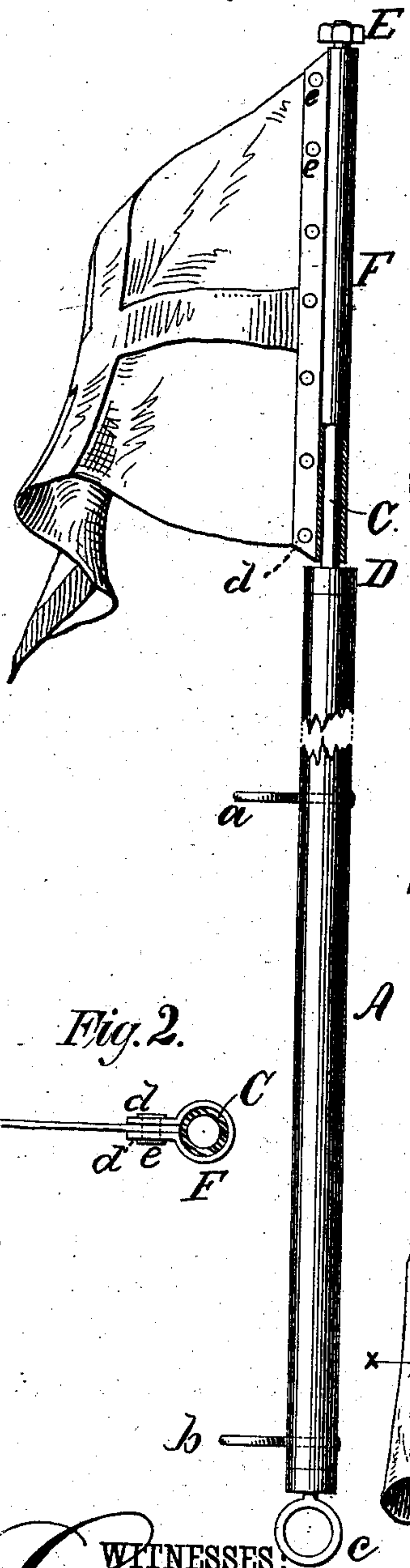


Fig. 2.

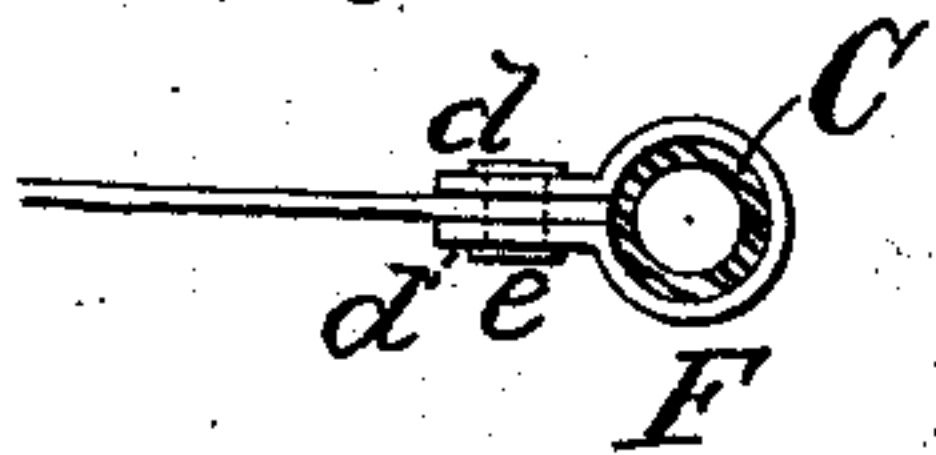


Fig. 3.

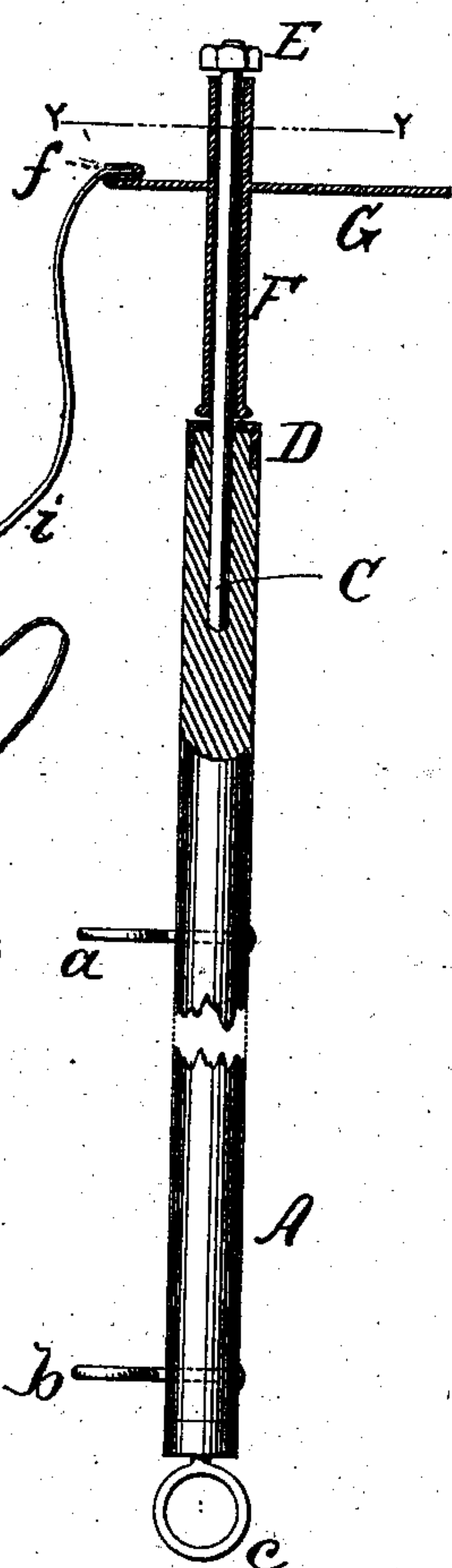


Fig. 4.

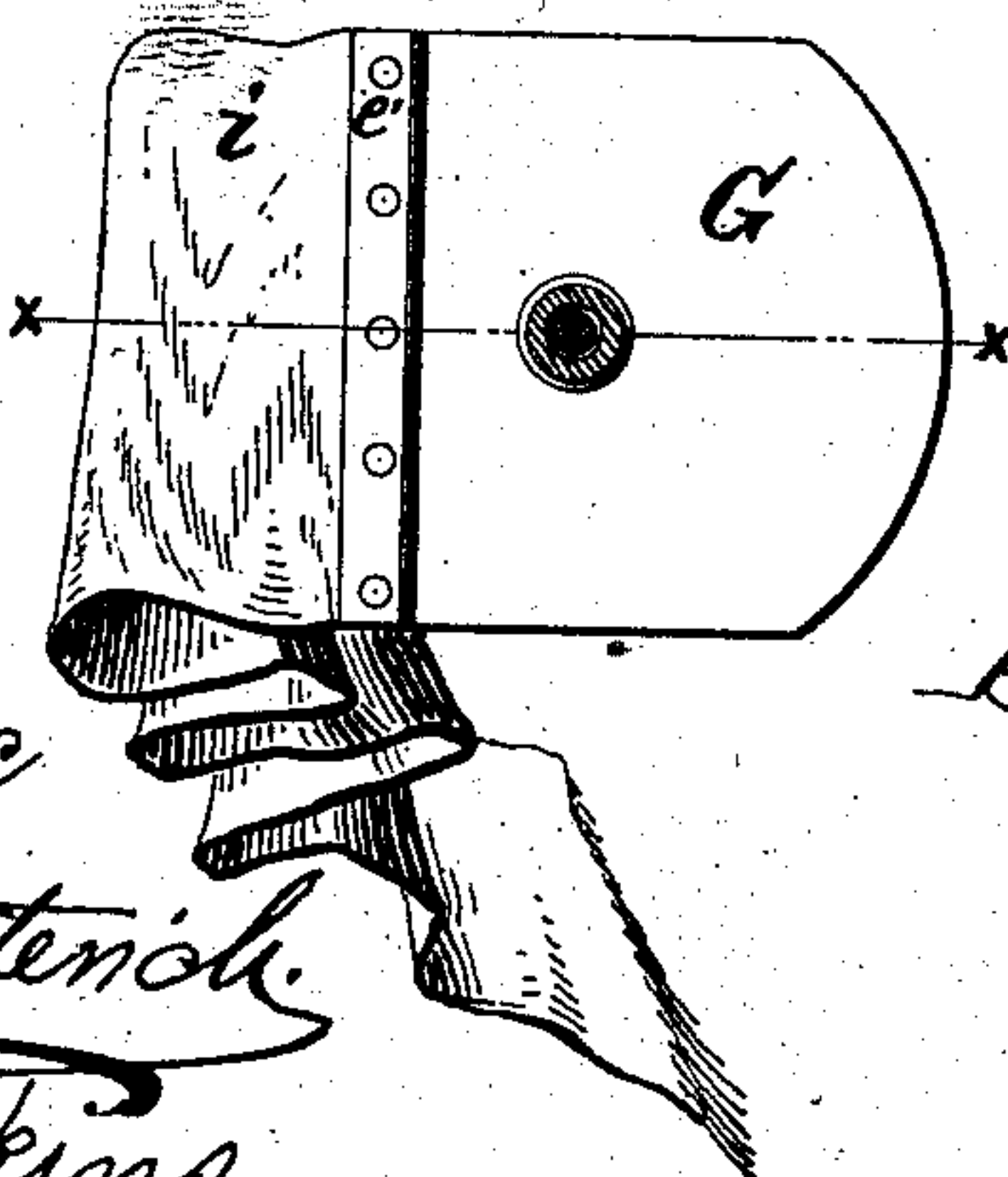


Fig. 5.

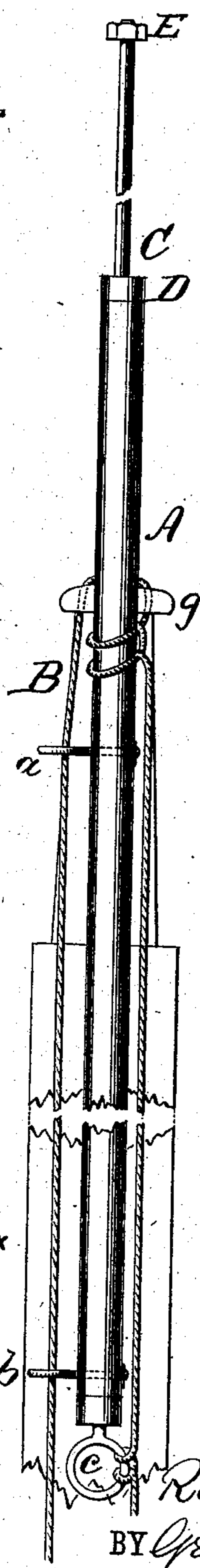
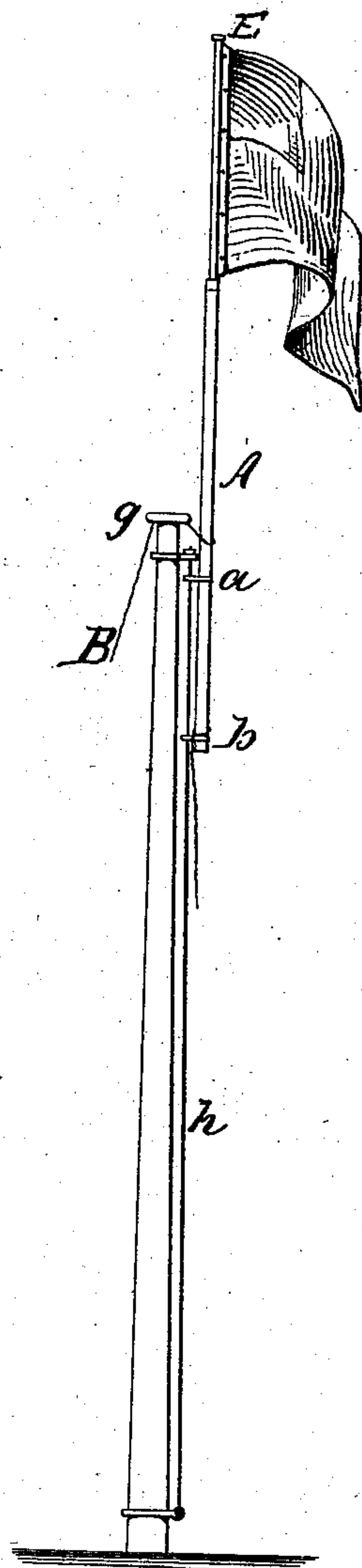


Fig. 6.



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UNITED STATES PATENT OFFICE.

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FLAG-POLE.

SPECIFICATION forming part of Letters Patent No. 289,976, dated December 11, 1883.

Application filed October 3, 1883. (No model.)

To all whom it may concern:

Be it known that I, ROBERT CENTER, a citizen of the United States, residing in New York city, county of New York, and State of New York, have invented a new and useful Improvement in Flag-Poles, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof.

My invention relates more particularly to flag-poles used on yachts and other vessels; but it may be applied wherever flags are used, the object of the invention being to prevent the flag from fouling.

My invention consists in a swiveled connection between the flag and flag-pole, comprising an extension of the flag-pole, preferably formed of a metal tube of small diameter, and a sleeve attached to the flag and loosely fitted to the extension of the flag-pole. With this construction, whenever the flag is blown in one direction or the other by changing winds, the sleeve turns readily with the flag, thus preventing the flag from winding around the pole.

My invention further consists in an improved device for attaching the halyards to the flag-pole, whereby boring large holes in the pole is avoided.

Figure 1 is a side elevation of my improved flag-pole, partly in section. Fig. 2 is an end view of the sleeve. Fig. 3 is a side elevation, partly in section on line *x x* in Fig. 4, showing the improvement applied to a fly. Fig. 4 is a horizontal section taken on line *y y* in Fig. 3. Fig. 5 shows the pole hoisted to the truck, and Fig. 6 shows the pole hoisted alongside of a mast, with a wire or wire rope as a guide.

The flag-pole A is provided with eyes *a b*, projecting from the side of the pole, and with the eye *c* in the end thereof, for receiving the halyards B, by which the flag-pole is hoisted. Into a hole bored in the upper end of the flag-pole A is inserted a tube, C, which is secured therein by the friction of the tube in the hole, or in any other approved way. The end of the flag-pole is provided with a metal cap, D, which is apertured to receive the tube C, and covers the end of the flag-pole. The outer end of the tube C is threaded to receive the nut E. On the tube C, between the nut E

and the cap D, is placed a sleeve, F, which fits the tube C loosely, and is provided with two longitudinal flanges, *d*, which project from the side of the sleeve, parallel with each other and a small distance apart. The end of the flag is inserted in the space between the flanges *d*, and secured by rivets *e*, passing through the flanges and the flag; or the flag may be stitched instead of riveted.

To adapt my improvement to flies, I form the sleeve F' of a complete tube and secure to it a metal plate, G, at right angles to its axis. One edge of this plate is returned upon itself, and then bent forward, to form a slot, *f*, into which the end of the fly *i* is inserted, and secured by rivets *e'*, passing through the plate and through the fly. The friction between the sleeve and the extension C of the flag-pole is very slight, so that the sleeve readily turns with the flag, and the flag is not allowed to become foul. When desired, a flag can be removed and replaced by another after removing the nut E.

The signal-halyards B are passed through the eyes *a b* through the truck *g*, in the usual way, and are secured by two half-hitches around the upper end of the flag-pole and two half-hitches in the eye *c* at the lower end of the flag-pole. As the flag is hoisted the pole is held in its vertical position by the halyards B and guided to its place at the top of the mast. The pole may be similarly guided by a standing wire or wire rope, *h*, held taut alongside of a mast, as shown in Fig. 6. In this case the eyes *a b* are arranged to slide upon the wire-rope *h*, and the halyards are secured to the flag-pole at convenient points near the eyes *a b*, and are used simply for the purpose of raising and lowering the pole. Parral-ropes round the mast may be substituted for the eyes *a b* if the mast be a single spar from the ground up.

I do not confine myself to the use of any particular materials in carrying out my invention, as these may be varied without materially altering the results. The construction may also be varied without departing from my invention by providing a bar to which to attach the flag, and furnishing the said bar with rings to receive the extension C of the flag-pole, the bar, with its rings, serving substantially the same purpose as the sleeve F

with its flanges. The lower eye, *c*, may be dispensed with, and the halyards may be secured directly to the lower end of the flag-pole by two half-hitches.

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

10 1. The flanged sleeve *F*, or its equivalent, in combination with the extension *C* of the flag-pole, as described.

2. The sleeve *F*, provided with apertured flanges *d*, in combination with the flag-pole *A*, provided with the tubular extension *C* and cap *D*, as specified.

15 3. The combination of the flag-pole *A*, provided with the extension *C*, and the laterally-projecting halyard-eyes *a b*, placed near opposite ends of the body of the said flag-pole, as specified.

4. The combination of the flag-pole *A*, provided with the extension *C*, the laterally-projecting halyard-eyes *a b*, and the end halyard-eye, *c*, as specified. 20

5. The combination, with the flag and flag-pole, of a flag-pole extension of smaller diameter than the body of the pole, of the sleeve *F*, adapted to the flag-pole extension, and provided with the apertured flanges *d*, for receiving the edge of the flag, as specified. 25

6. The combination, with the flag and flag-pole, of a flag-pole extension, *C*, of reduced diameter, the fastening-nut *E*, and the sleeve *F*, provided with apertured flanges *d*, as specified. 30

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Witnesses:

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F. A. HYDE.