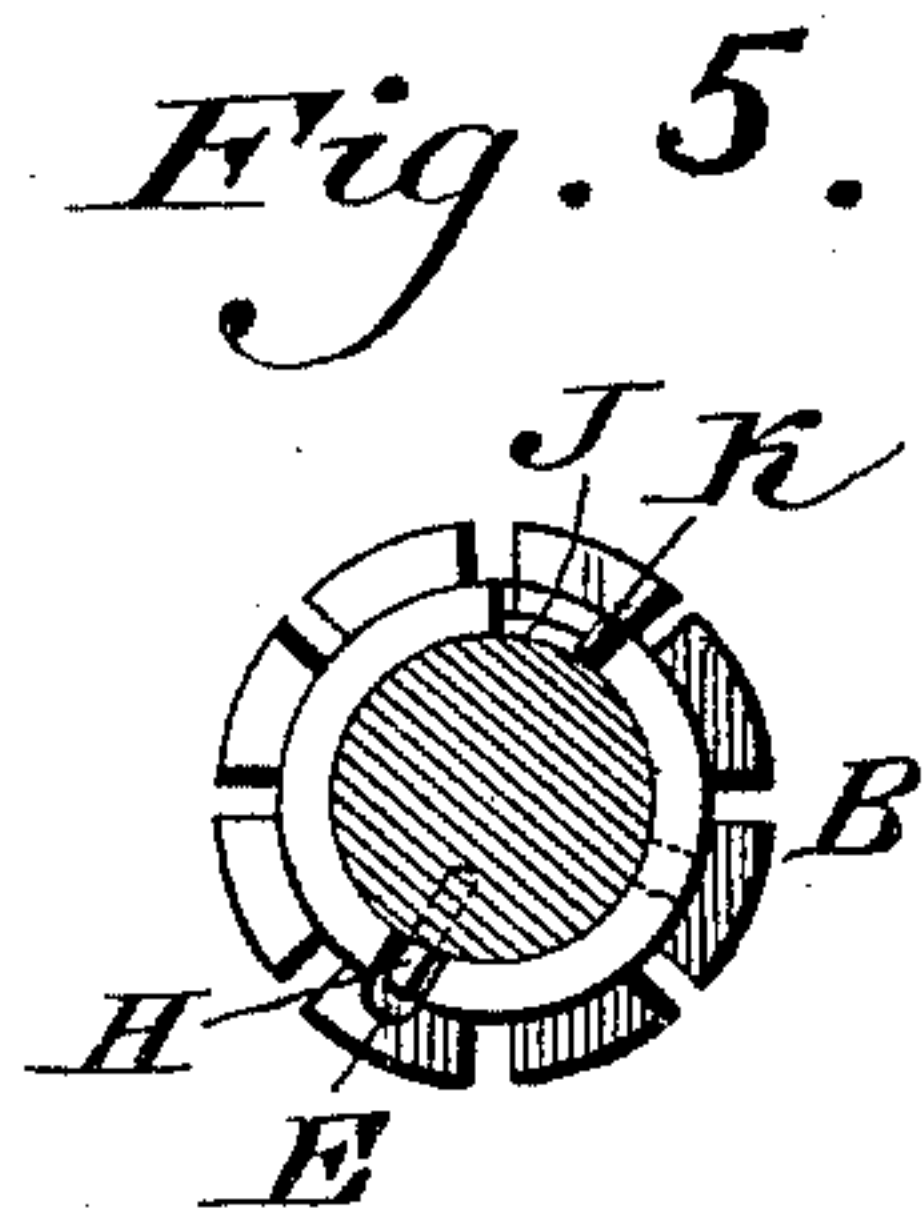
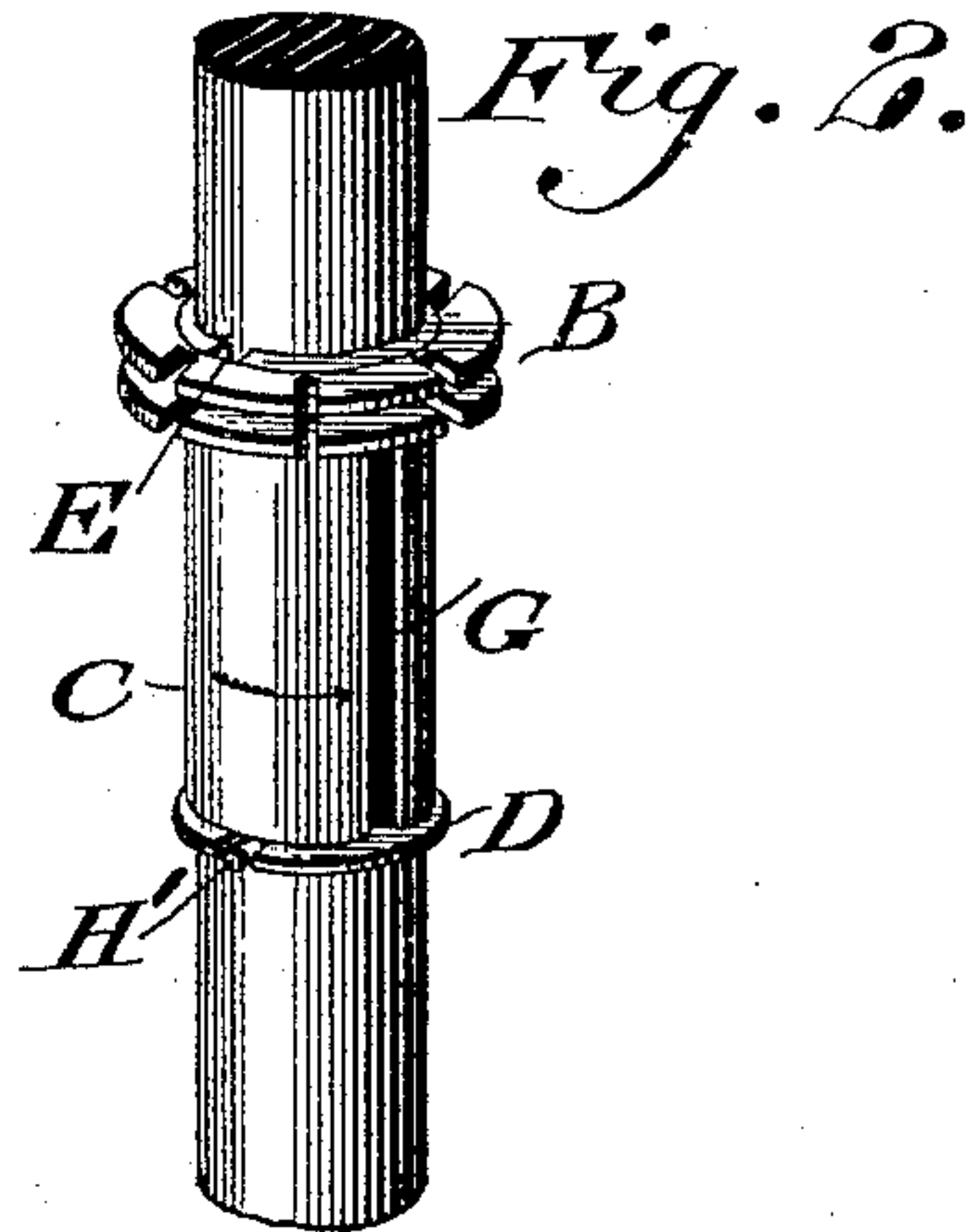
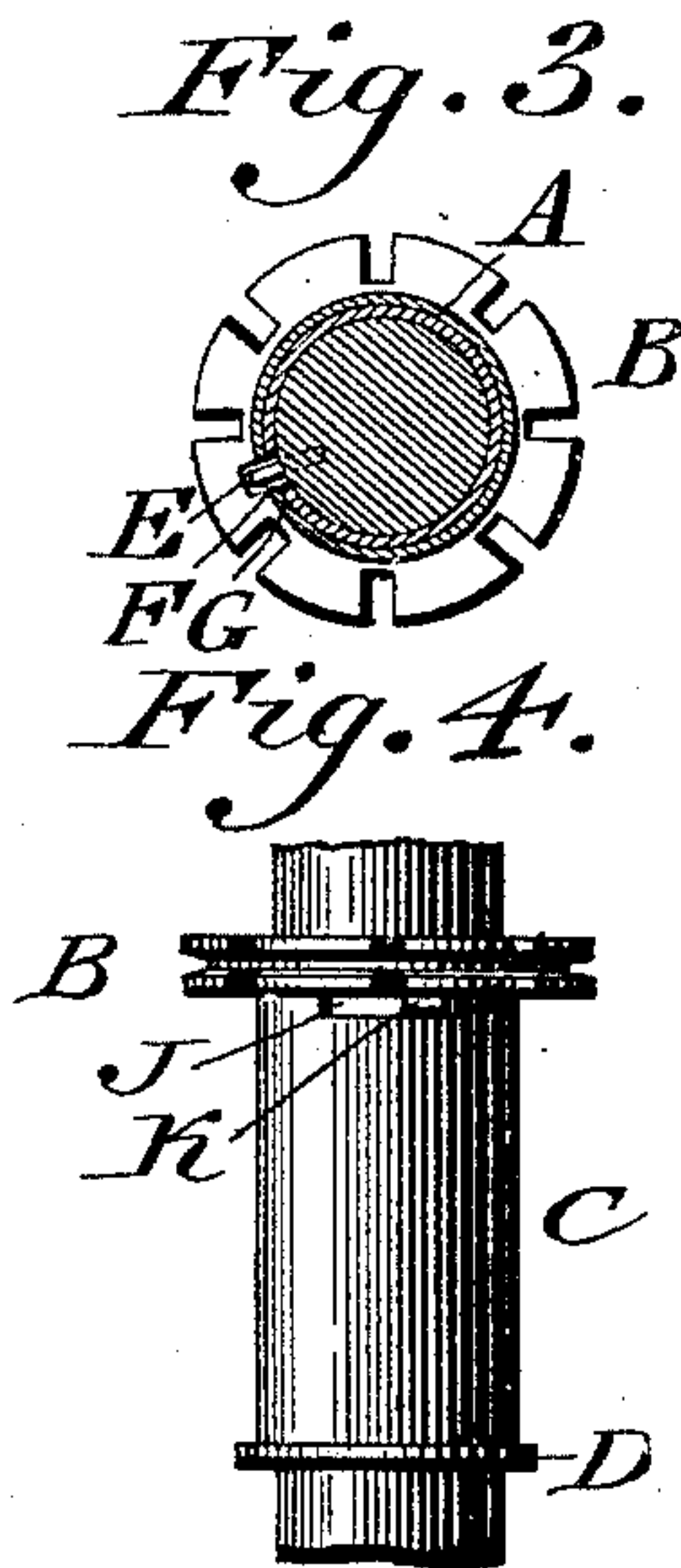
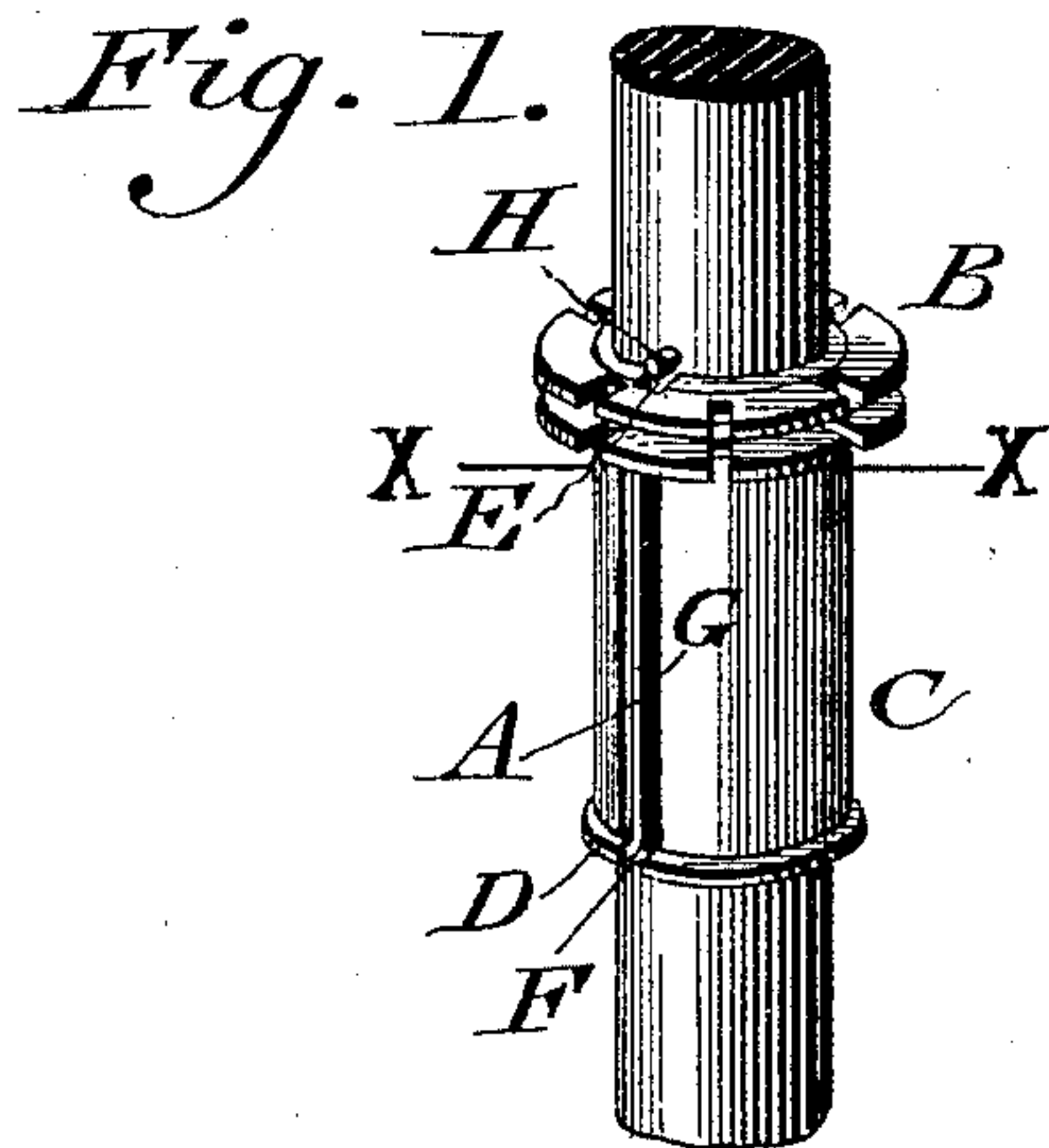


(No Model.)

R. ARDREY.
UMBRELLA RUNNER.

No. 458,884.

Patented Sept. 1, 1891.



WITNESSES:

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ROBERT ARDREY, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
DILLWYN WISTAR, OF SAME PLACE.

UMBRELLA-RUNNER.

SPECIFICATION forming part of Letters Patent No. 458,884, dated September 1, 1891.

Application filed November 24, 1890. Serial No. 372,483. (No model.)

To all whom it may concern:

Be it known that I, ROBERT ARDREY, a subject of the Queen of Great Britain, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Umbrella-Runners, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of an umbrella or parasol runner which is adapted to be rotated so as to engage with a pin on the stick, thus retaining the runner in the open and closed positions of the umbrella or parasol and dispensing with the spring-catch heretofore employed for such purpose.

Figures 1 and 2 represent perspective views of an umbrella-runner embodying my invention. Figs. 3 represents a section on line $x x$, Fig. 1, looking up. Fig. 4 represents a side elevation of the construction shown in Figs. 1 and 2 opposite to what is shown in said figure. Fig. 5 represents a top view, the stick being in section.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates an umbrella-runner, which is of the form of a sleeve and having the notched collar B rigidly secured thereto, said collar being adapted to have the stretchers connected therewith, as usual in such cases.

C designates a supplemental sleeve, which is rotatably fitted on the runner below the collar B, being retained in position by a flange D on the lower end of the runner and the said collar B at the top of the runner.

In the collar is a slot E, in the runner is a slot F, and in the sleeve is a slot G, all extending in the vertical direction of said parts, or parallel with the stick.

Projecting from the stick are pins or studs H H', which are adapted to occupy the several slots E, F, and G as the runner is moved, whereby said runner may readily pass said pin without obstruction.

It will be seen that when the umbrella is closed the sleeve C is turned, so that the slot G thereof registers with the slot F of the runner, the slot E of the collar registering with both slots F and G. The umbrella may now be opened as usual, the runner passing the

pin H' until it is above the same, when the sleeve C is rotated so that its slot G leaves the slot F, thus closing the bottom of the latter and causing the lower edge of the sleeve to contact with the pin on the upper side, whereby the runner is locked and prevented from being lowered, the umbrella thus being held in open position. When the umbrella is to be closed, the sleeve is rotated so as to be restored to its normal position, whereby the slot G registers with the slot F and the sleeve C no longer rests on the pin H. The umbrella may now be closed, the runner lowering without interference of said pin H. When the runner has moved to full extent, the sleeve is again rotated so as to close the slot F and cause the pin H to bear against the top edge of the sleeve, thus again locking the runner and preventing the opening of the umbrella.

In order to limit the rotation of the sleeve in either direction, the same is formed with a slot J, into which projects a lug K on the collar B, said slot being considerably wider than said lug, so that when the sleeve is moved to the required extent the relative wall thereof abuts against the lug as a stop, thus preventing further rotation of the sleeve. The slots of the sleeve and runner extend entirely through the same from top to bottom, so that the runner when raised or lowered fully passes the pins on the stick and permits said pins to rest solidly or directly against either the top or bottom edge of said sleeve to lock the runner in closed or open position.

I am aware that it is not new to provide a runner with a rotating sleeve the same having two short slots, one extending downwardly from the top and the other extending upwardly from the bottom, and each slot having a lateral extension to receive the relative pin of the stick. By my construction the lateral extensions of the slots, which weaken the walls of the main slots, are avoided and the top and bottom edges of the sleeve are utilized to receive the impact of the pins, so that the pressure on the runner is received solidly on the sleeve thereof, owing to the edges of the latter being placed in the path of said pins.

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

A slotted runner having a rotating and registering slotted sleeve thereon, the same being retained between the notched collar and the flanged opposite end of the runner, the slots
5 of the runner and sleeve extending entirely the length thereof, the collar having a lug attached thereto for regulating the revolution

of the sleeve, said parts being combined substantially as described.

ROBERT ARDREY.

Witnesses:

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