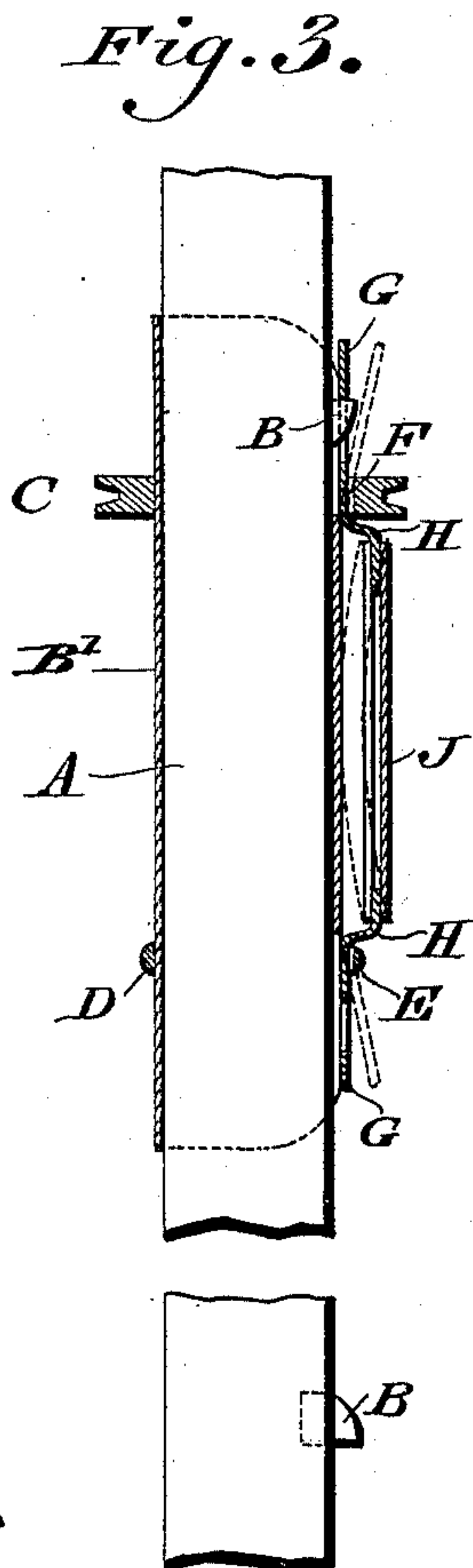
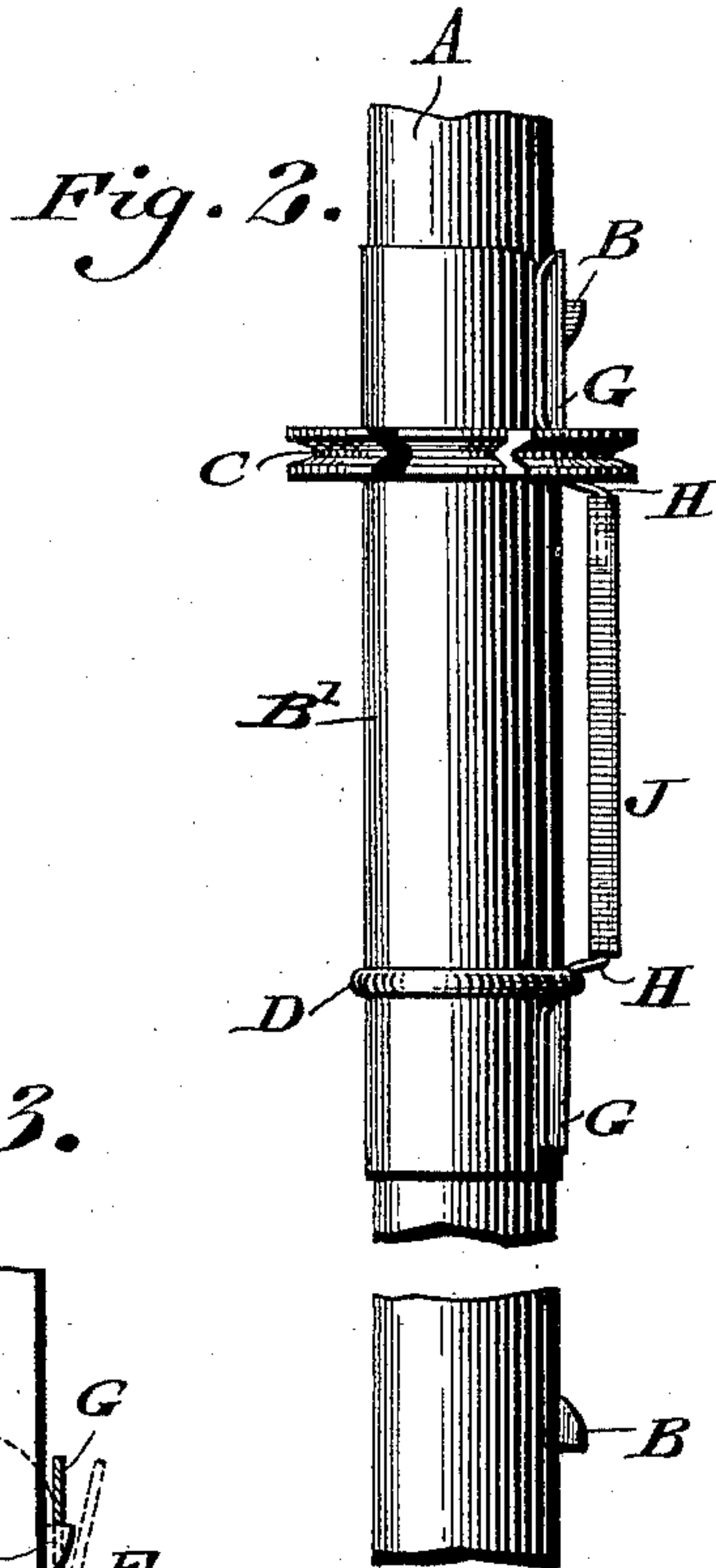
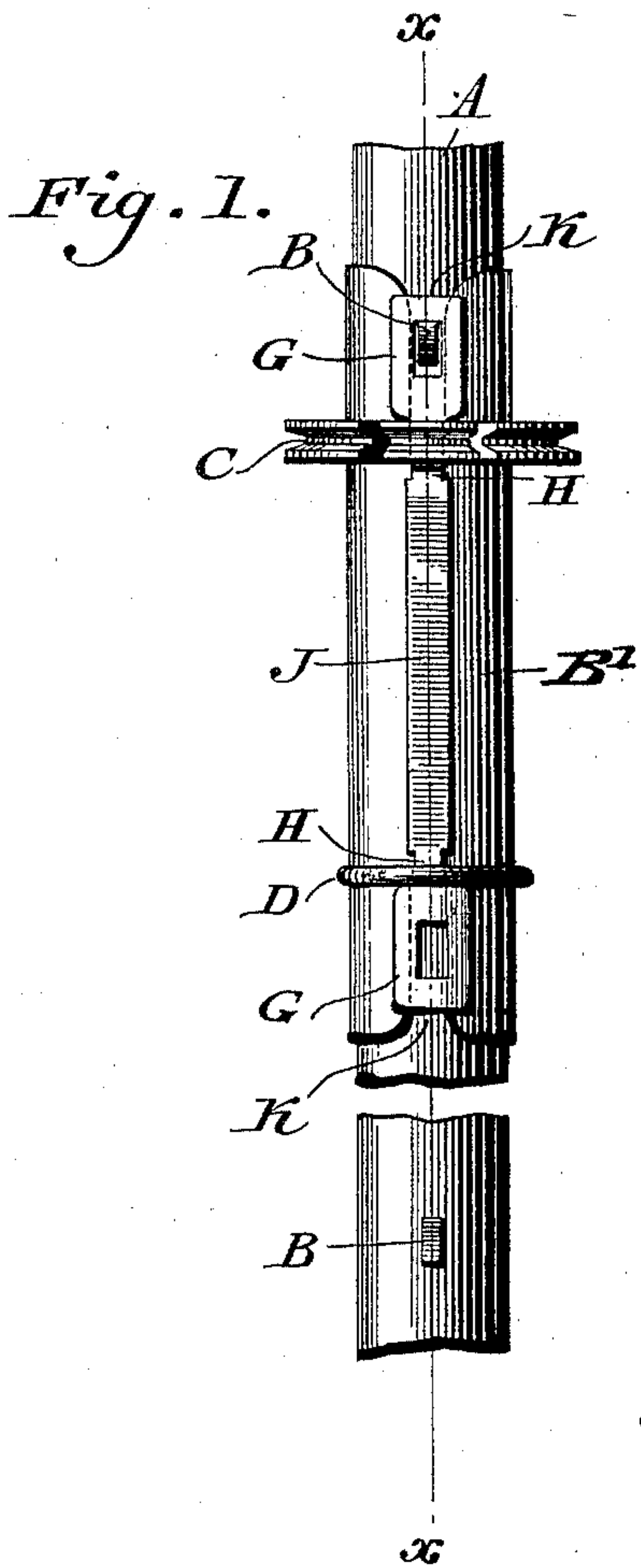


(No Model.)

E. L. GLENN.  
UMBRELLA RUNNER.

No. 462,044.

Patented Oct. 27, 1891.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

EDMUND L. GLENN, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO  
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## UMBRELLA-RUNNER.

SPECIFICATION forming part of Letters Patent No. 462,044, dated October 27, 1891.

Application filed March 30, 1891. Serial No. 386,919. (No model.)

*To all whom it may concern:*

Be it known that I, EDMUND L. GLENN, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Fastenings for Umbrella-Runners, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of improvements in a fastener for umbrella and parasol runners, embodying eyes that are adapted to engage with catches on the stick, and a pressure-bar, whereby said heads may be disengaged from said catches.

It also consists of a sleeve of novel construction, the same operating with the said eyes, as will be hereinafter fully set forth.

Figures 1 and 2 represent side elevations of a fastening for an umbrella-runner embodying my invention. Fig. 3 represents a vertical section thereof on line  $x x$ , Fig. 1.

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

Referring to the drawings, A designates an umbrella-stick, the same being provided with catches B, which are located at places respectively adjacent to the location of the runner B' when the umbrella is closed and opened.

C designates the notched ring, to which the stretchers are attached, said ring or collar being near the upper end of the runner. Below said ring is a bead D, between which and the runner is a passage E. Between the ring C and the runner is a passage F.

G designates eyes or perforated plates, which occupy positions respectively at the top and bottom of the runner, and having their inner ends pass freely through the passages E and F, said ends being formed with or secured to elbows or bent pieces H, the outer limbs of said elbows being connected with a bar J, which, as will be seen, is located between the ring C and bead D, and extends in the longitudinal direction of the runner, said bar and elbows being elastic in their

nature, so as to yield when required and afterward return to their normal positions.

In Figs. 2 and 3 I show the eyes made separately from the bar and secured thereto, while in Fig. 1 said eyes and bar are shown as formed in one piece. The upper and lower ends of the runner B' are recessed longitudinally, forming flaring throats K with rounded or oblique edges for guiding the runner to the respective catch B, as will be hereinafter more fully explained.

The operation is as follows: When the runner is locked in either of the open or closed position of the umbrella and it is desired to release the same, the bar J is pressed in, whereby the elbows H turn on their bearings on the runner and the eyes G are thrown out of engagement with the catches B, as most clearly shown in Fig. 3. It will be seen that when the bar is pressed in, the elastic eye receives a simultaneous longitudinal and outward movement to thereby clear the said eye from the horizontal face of the catch, when the runner may be raised or lowered, it being understood that the bar is disengaged when the runner is moved. The bar is now let go and the runner moved up or down, as the case may be. When the eye that is to be locked reaches the relative catch B, it rises thereon, owing to the rounded or inclined face thereof, until the inner wall of the opening in the eye clears the shoulder of the catch, when said eye drops into engagement with the catch, thus locking the runner. When the runner approaches either of the catches, the adjacent throat receives said catch and directs the eye to the latter. Should the runner not be true in its motions, the edges or walls of the throat strike the catch and ride thereagainst, thus righting or setting the runner, so that the eye is in the path of the catch so as to engage therewith.

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

An umbrella-runner consisting of a sleeve with a notched collar and bead, a spring-bar



having eyes at its ends and elastic elbow-levers intermediate of said bar and eyes and provided with limbs which freely occupy passages in the collar and bead, respectively,  
5 said passages being directly around the runner, against which the vertical limbs of the elbow-levers rest, so that the angles of the latter fulcrum directly on the runner, the

eyes thereby having simultaneous slightly longitudinal and outward movements, substantially as described.

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