

No. 685,959.

Patented Nov. 5, 1901.

W. WARD.
STUFFING BOX GLAND.
(Application filed Apr. 25, 1901.)

(No Model.)

Fig. 1.

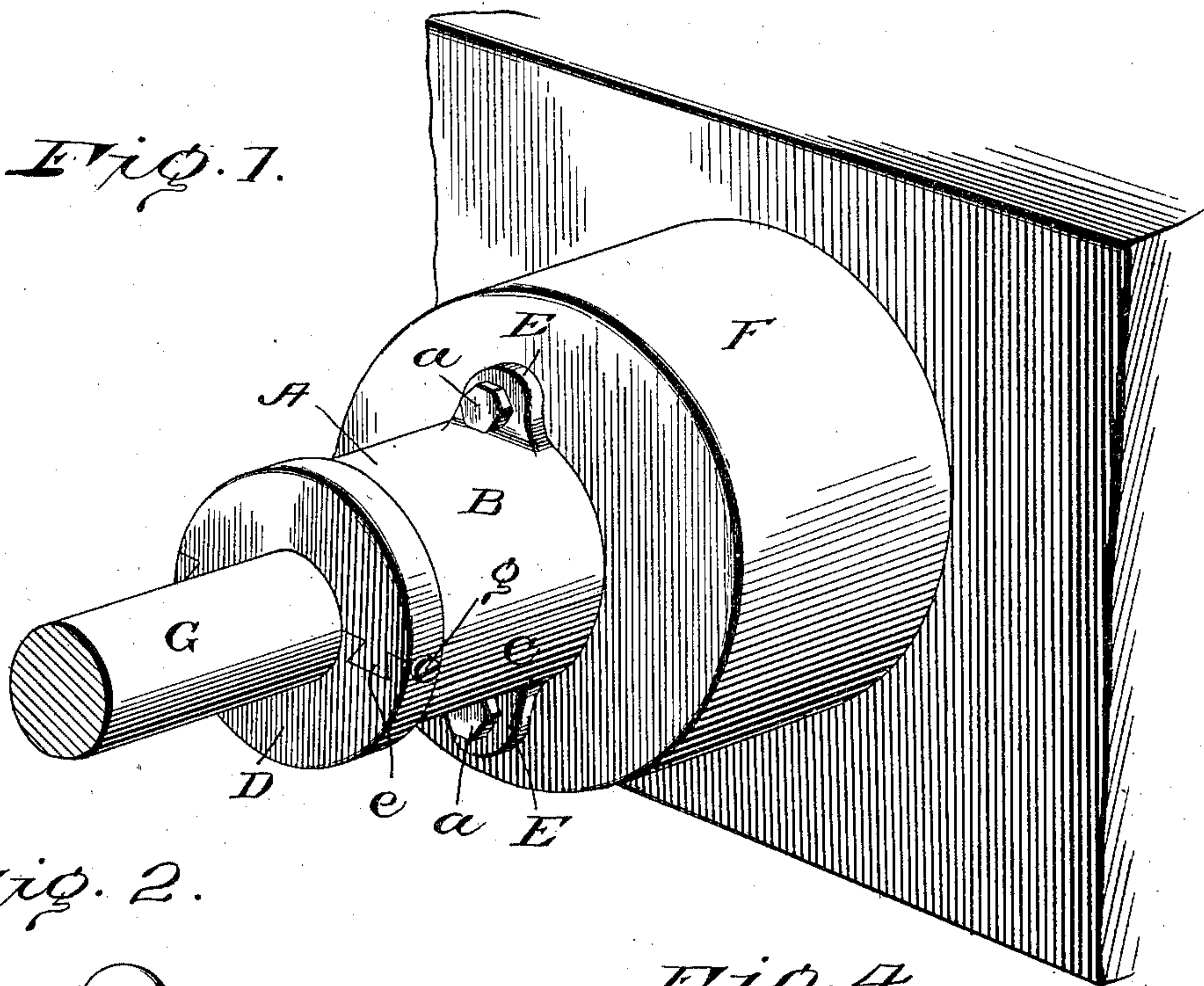


Fig. 2.

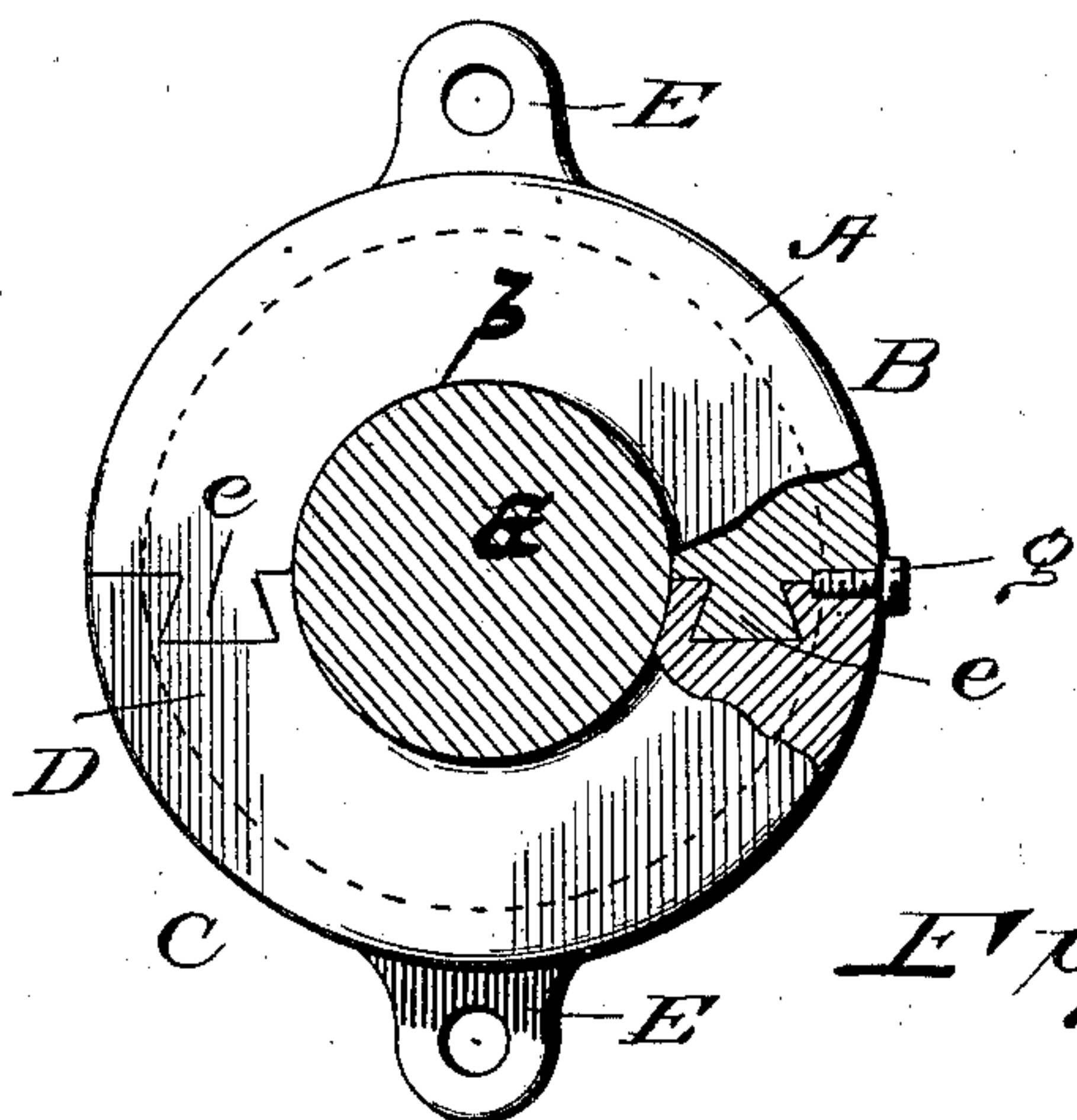


Fig. 4.

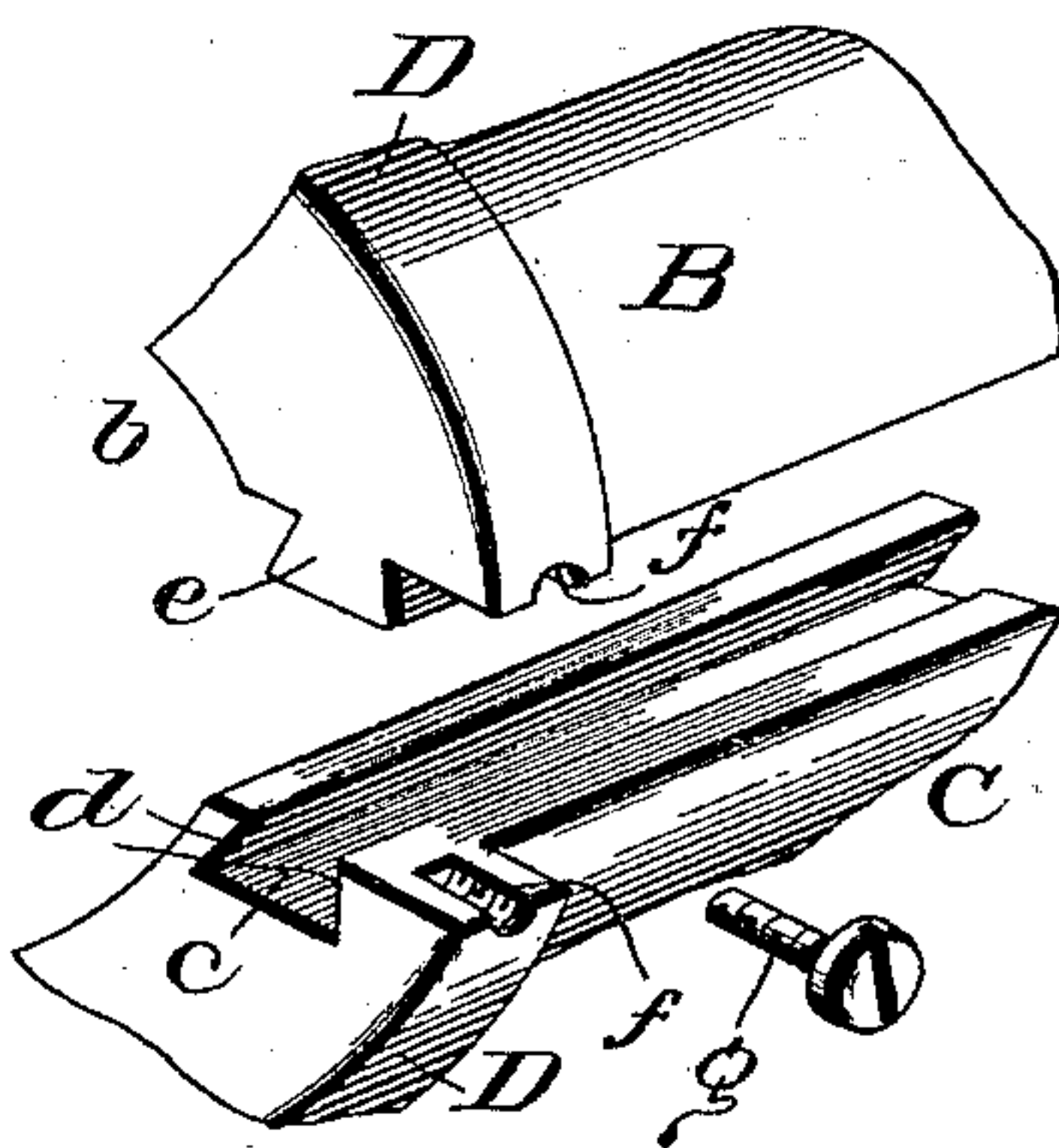
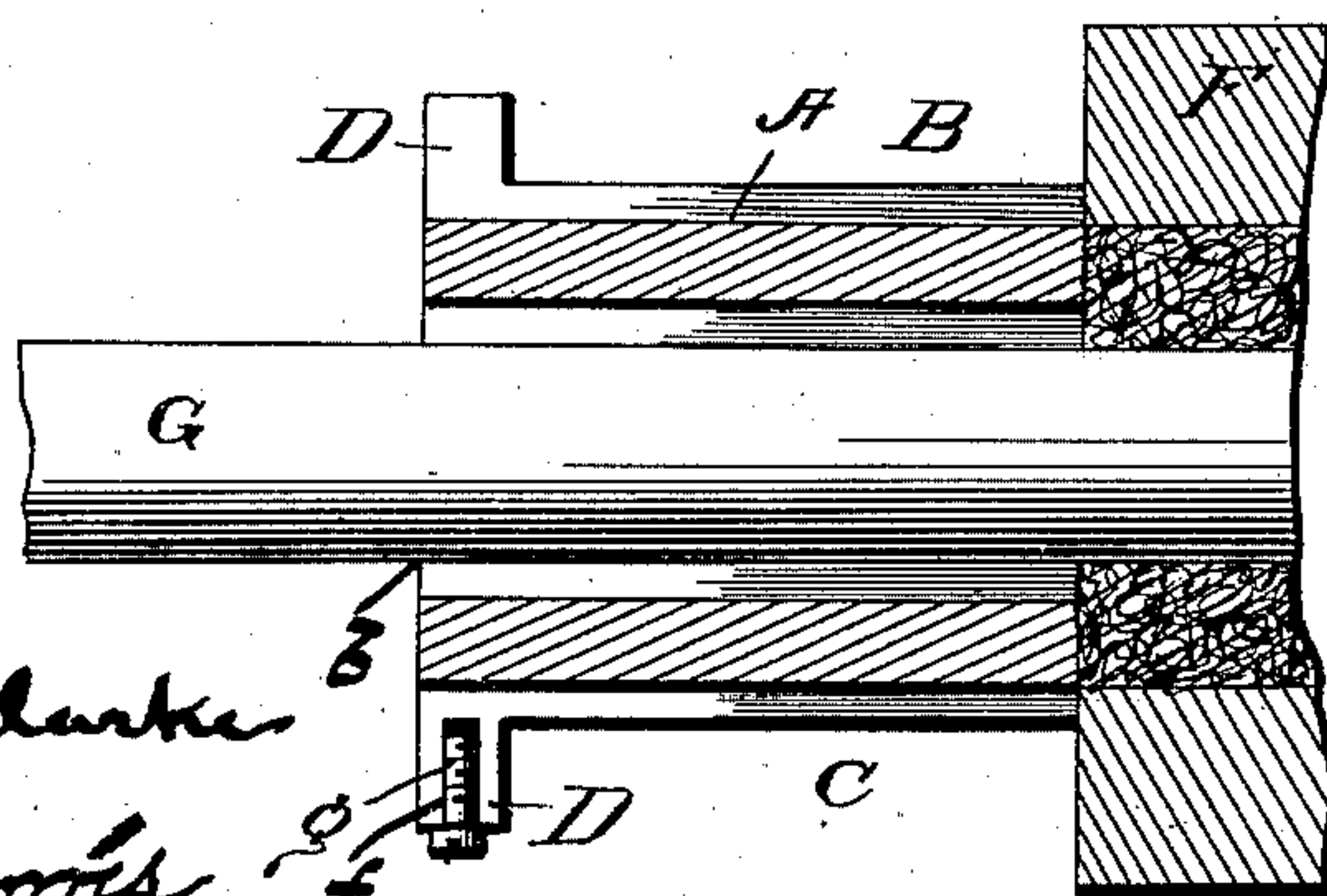


Fig. 3.



Witnesses
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WILLIAM WARD, OF SPARROWS POINT, MARYLAND.

STUFFING-BOX GLAND.

SPECIFICATION forming part of Letters Patent No. 685,959, dated November 5, 1901.

Application filed April 25, 1901. Serial No. 57,419. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WARD, a citizen of the United States, residing at Sparrows Point, in the county of Baltimore and State of Maryland, have invented certain new and useful Improvements in Stuffing-Box Glands; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to improvements in devices applicable to packing or stuffing boxes; and it consists in the novel construction and arrangement of the same, all as will be hereinafter more fully explained, and particularly pointed out in the appended claim.

The annexed drawings, to which reference is made, fully illustrate my invention, in which—

Figure 1 represents a perspective view of my improved gland for packing or stuffing boxes. Fig. 2 is a vertical transverse sectional view of the same. Fig. 3 is a horizontal sectional view, and Fig. 4 is a detail perspective view showing the two sections of the gland separated from one another.

Referring by letter to the accompanying drawings, A designates the gland, which is composed of two sections B and C, that are detachably connected to one another and are provided with semicircular flanges D D and lugs E E at the rear portion, where the gland joins the face of the stuffing-box F, said lugs being perforated to admit screws *a a*, which enter female-screw-threaded taps in the face of the box, whereby the gland is firmly but removably secured to said box. This gland is provided with the central longitudinal opening *b* for passage of the piston-rod G, in which said rod has its play. The lower section or half of the gland, as at C, is provided on its edges, on opposite sides of the central passage *b*, with grooves or channels *c c*, which extend from the front of the gland to the rear thereof, the interior sides or walls *d d* of which are inclined or beveled, providing a groove on either side of the central passage to receive the

dovetailed projections *e e*, which are formed integral with the section B and extend from one end of said gland to the other end thereof.

The flange D of the gland is provided with a female-screw-threaded opening *f*, which is tapped on the meeting-line of the two sections, as shown clearly in Figs. 1 and 4, in which is inserted a screw *g*, that is designed to securely hold the two sections to one another in a locked position.

It will be readily seen from the above description, when taken in connection with the accompanying drawings, that I construct a gland in two parts or sections which are joined together by a dovetailed portion, and when the two halves are joined together they are firmly locked to one another by the screw *g*, thus preventing any longitudinal movement of either section, and when it is desired to separate the sections from one another the operator simply withdraws the screw *g* and the top screw *a*, thereby releasing the upper half or section B from the face of the stuffing-box, when said half can be detached by sliding the same outward until the dovetailed tongues are released from the chambers in the opposite section, thus permitting the lower section C to remain, if desired, secured to the face of the stuffing-box, and in removing the gland or both sections from the face of the stuffing-box both the upper and lower screws *a a* are withdrawn, as well as the screw *g*, when the sections can be detached from the piston-rod by sliding said sections longitudinally in opposite direction from one another. It will be further observed that my device can be readily attached to mechanism of any description having a stuffing-box, and it will be readily seen that in removing and replacing the stuffing or packing in the box one or both sections can be removed and replaced without interfering with the piston-rod or any portion of the machinery, and it is durable, ornamental, and at the same time cheap to manufacture, as well as being easily attached and detached.

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

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In a device of the character described, the gland comprising the two sections, dovetailed to one another, each half having a front and rear flange, the rear flange adapted to be secured to a cylinder and the front flange having the female-threaded opening and a screw adapted to enter said opening on a central line between the two halves or sections,

whereby the latter are held firmly in place, as shown and described. 10

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM WARD.

Witnesses:

GEO. E. FRECH,
HANNAH WARD.