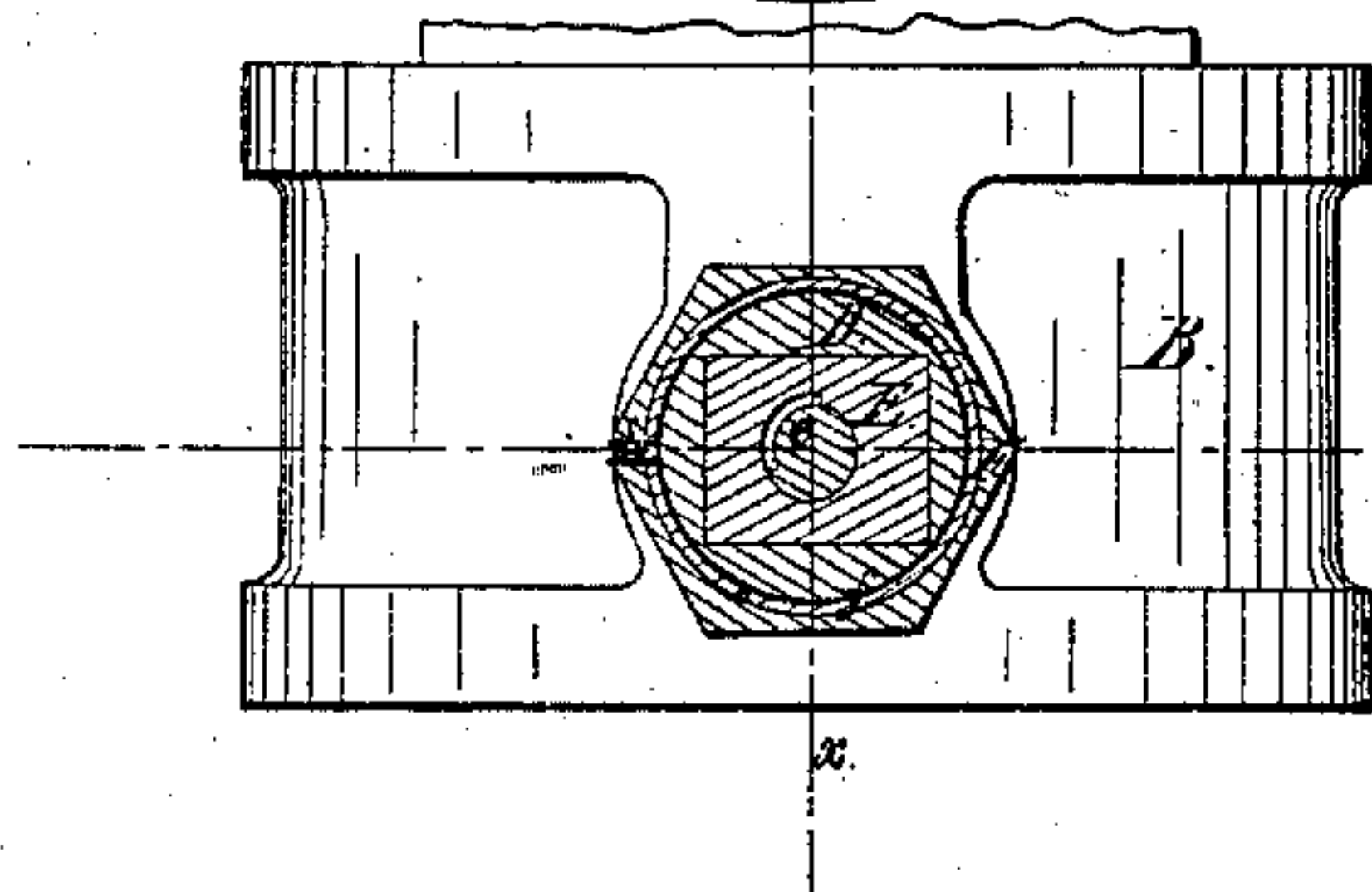
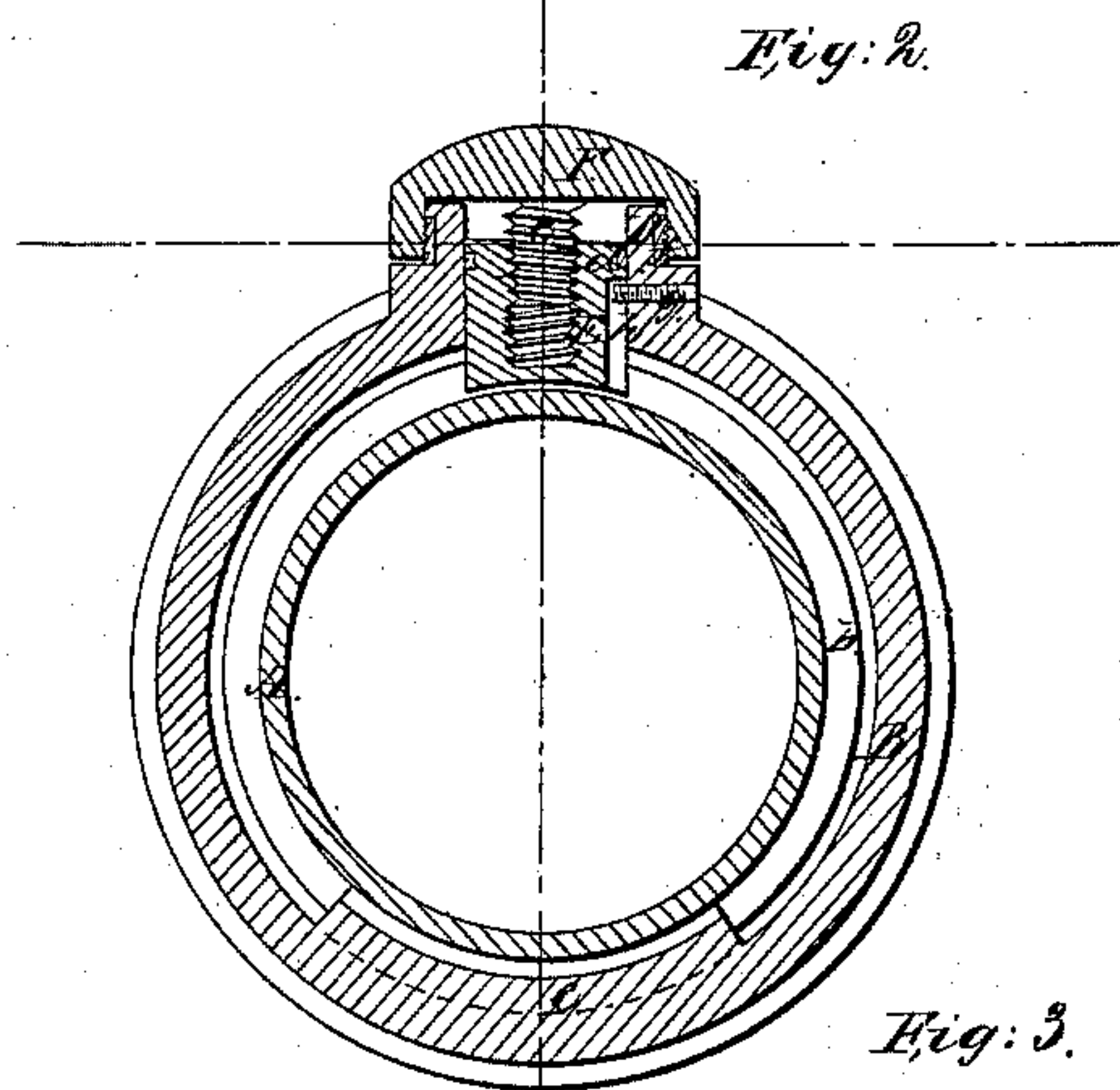
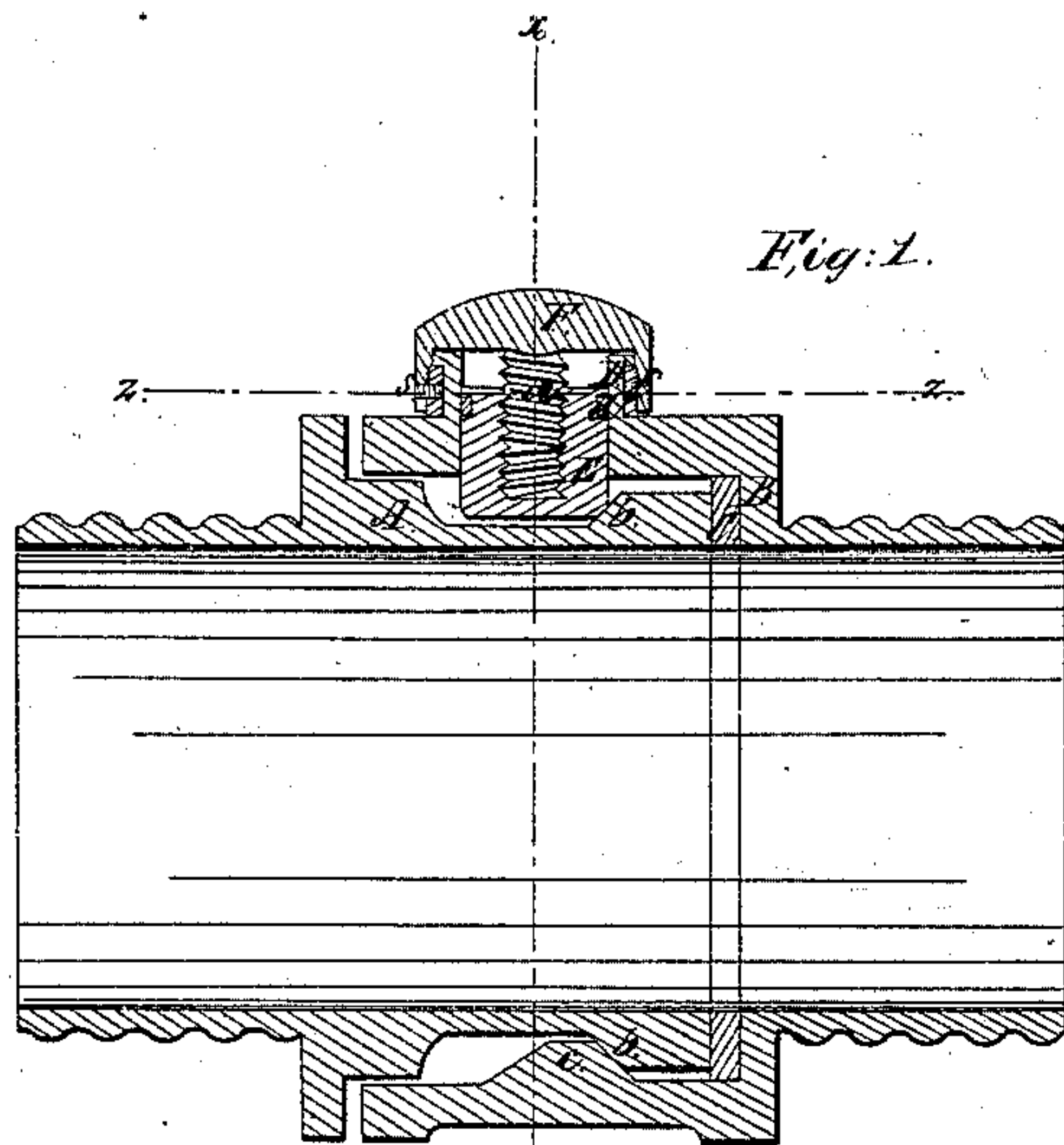


Curtis & Tenksbury.

Hose Coupling.

N^o 66,804.

Patented July 16, 1867.



Witnesses:

*M. Coomb.
J. W. Reed*

Inventor:

M. S. Curtis

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Per their Attorneys

Brown, Coomb & Co.

United States Patent Office.

MOSELEY S. CURTIS AND WILLIAM D. TEWKSBURY, OF NEW YORK, N. Y.

Letters Patent No. 66,804, dated July 16, 1867.

IMPROVEMENT IN HOSE AND OTHER COUPLINGS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, MOSELEY S. CURTIS and WILLIAM D. TEWKSBURY, both of the city, county, and State of New York, have invented a certain new and useful Improvement in Hose and other Couplings, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification, and in which—

Figure 1 represents a longitudinal section of a hose-coupling constructed according to our improvement.

Figure 2, a transverse section thereof through the line *x x*; and

Figure 3, a sectional plan of the female coupling through the line *z z* in fig. 1.

Like letters indicate like parts throughout the several figures.

This invention relates to what is usually known as Gaylord's hose-coupling, in which the male and female butts are so combined with an interposed elastic packing-ring as that, by the application of force to one side only of the coupling, said butts are drawn together or released to establish or break the connection as required, and which action is produced by means of a radial outside screw formed with a bevel end arranged in the one butt, and working against a bevelled ring on the other butt, in connection with a bevelled projection opposite to the screw in the same butt as the latter, and bearing against the bevelled ring of the inside butt; and the nature of our invention consists in a novel combination, with a bevelled ring or formation on the male butt, and bevelled projection inside the female butt, of a sliding bevelled-edged block, operated by a screw from the outside, and that serves to tighten up or release the coupling without turning or guiding on the bevelled ring of the inside butt, and without longitudinal play of the screw, thereby lessening the protuberance outside of the latter. And said invention further consists in a peculiar construction or arrangement of certain details for effecting such action. This our invention, by a suitable modification of the butts, is applicable alike to pipe as to hose-couplings and connecting-shafts. As represented in the drawing, it is shown as applied to a hose-coupling.

Referring to the accompanying drawing, A represents the male, and B the female butt. C is the interposed soft or elastic packing. The male butt A is constructed with a bevelled ring or formation, *b*, and the female butt with a reversely bevelled formation or partial ring, *c*. Through or on the female butt B is a nozzle, D, of such configuration on the inside as to snugly receive within it, so as to be incapable of turning therein, a square or other shaped sliding-block, E. To prevent leakage, this sliding-block may be fitted with a packing, *d*. It is bevelled on its edge, that, by means of a screw-cap, F is made to bear against the bevelled ring formation *b* of the male butt. The screw-cap F is provided with a screw-shank or pin, *e*, that fits into a female screw or thread in the block E, and so that by turning the screw-cap to the right or left, the block E is worked radially in or out to tighten up or release the coupling by causing its bevelled edge to bear on or off the bevelled ring *b*. To effect this action the screw-cap F has a fixed rotation on the nozzle D, which may be accomplished by screwing the cap on to a split ring, *f*, fitting a groove in the nozzle, and so as to be capable of freely turning therein with the cap; a pin, *s*, serving to hold the cap and ring together. Another pin, *g*, projected through one side of the nozzle, and fitting into a groove, *h*, in the block, restrains the latter from being worked below a proper point or distance.

From this description it will be observed that as the block E does not turn in its socket, and presents a long or broad bearing on the bevelled ring of the male butt, there is no grinding action on the latter, and that a long effective resisting surface is obtained; also, that the screw which operates the block has no longitudinal motion whereby its protuberance or that of its cap on the outside is diminished.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The combination, with the bevel rings or formations *b* and *c* on the male and female butts, of the bevelled sliding-block E, when said sliding-block is prevented from revolving, and operated by means of a screw, restrained from longitudinal play, substantially as specified.

2. The combination of the screw-cap F, screw *e*, and sliding-block E, for operation in connection with the butts and their bevelled rings or formations, all constructed and arranged essentially as herein set forth.

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Witnesses:

HENRY T. BROWN,
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