

(No Model.)

2 Sheets—Sheet 1.

F. C. ROBERTS.
WHIP SOCKET.

No. 536,657.

Patented Apr. 2, 1895.

Fig. 1.

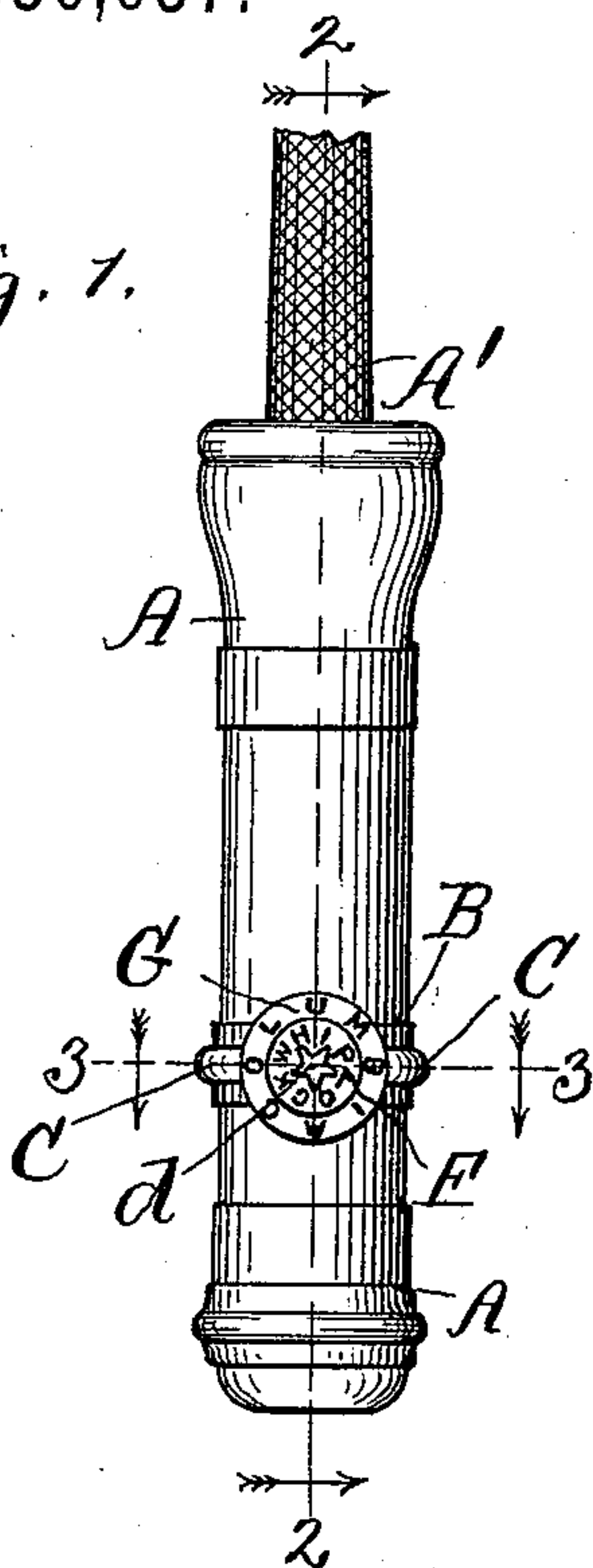


Fig. 2.

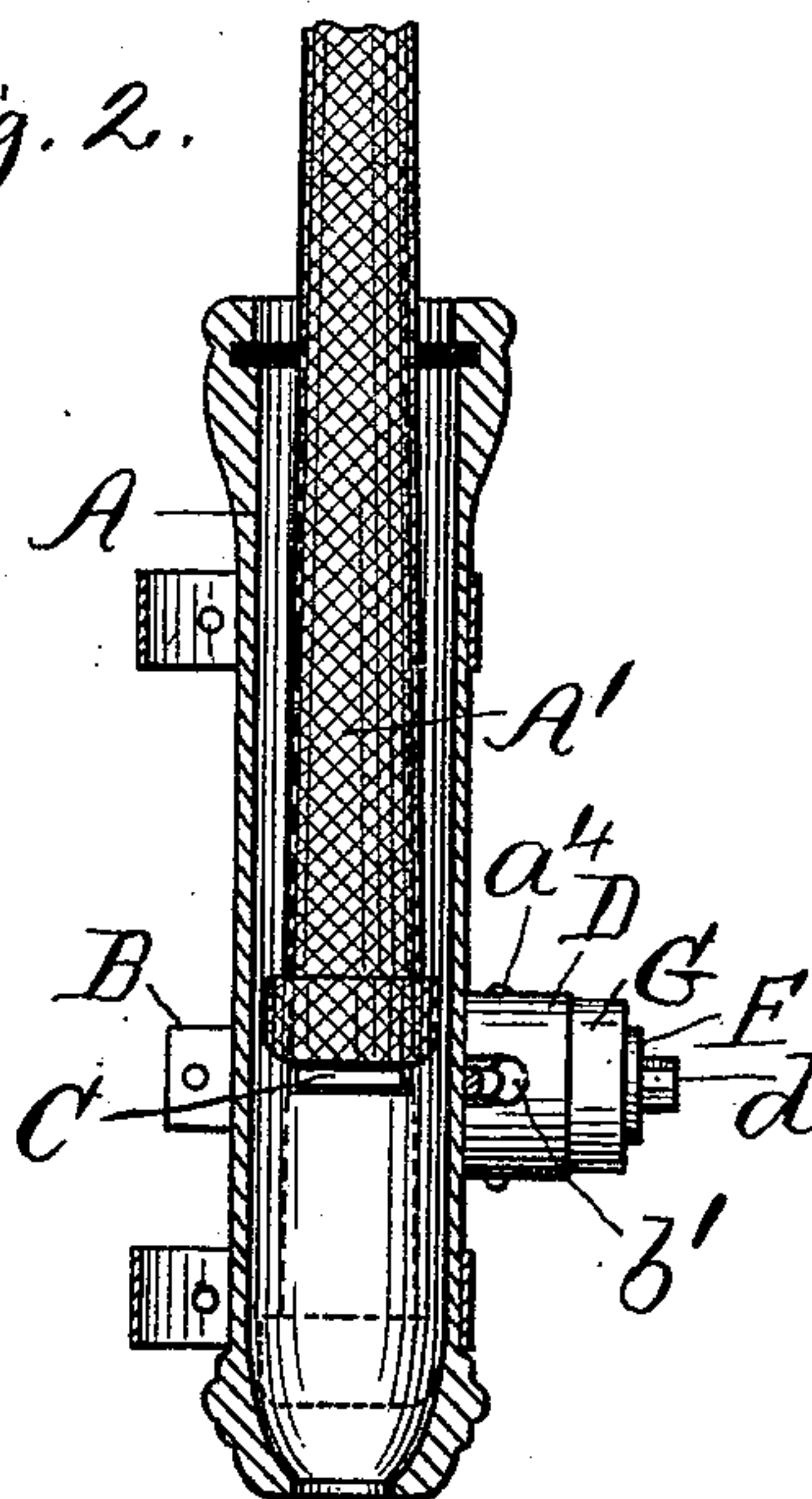


Fig. 3.

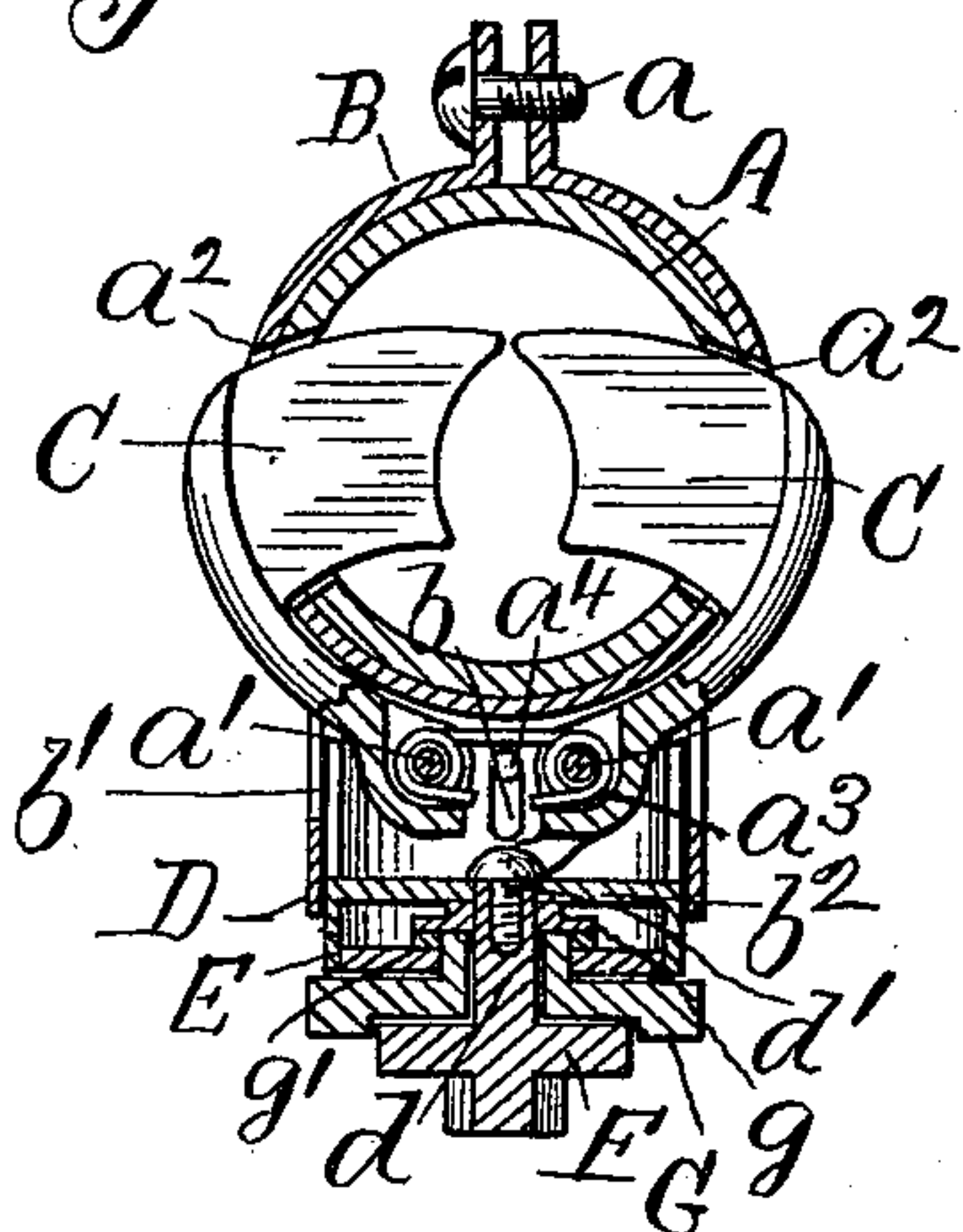
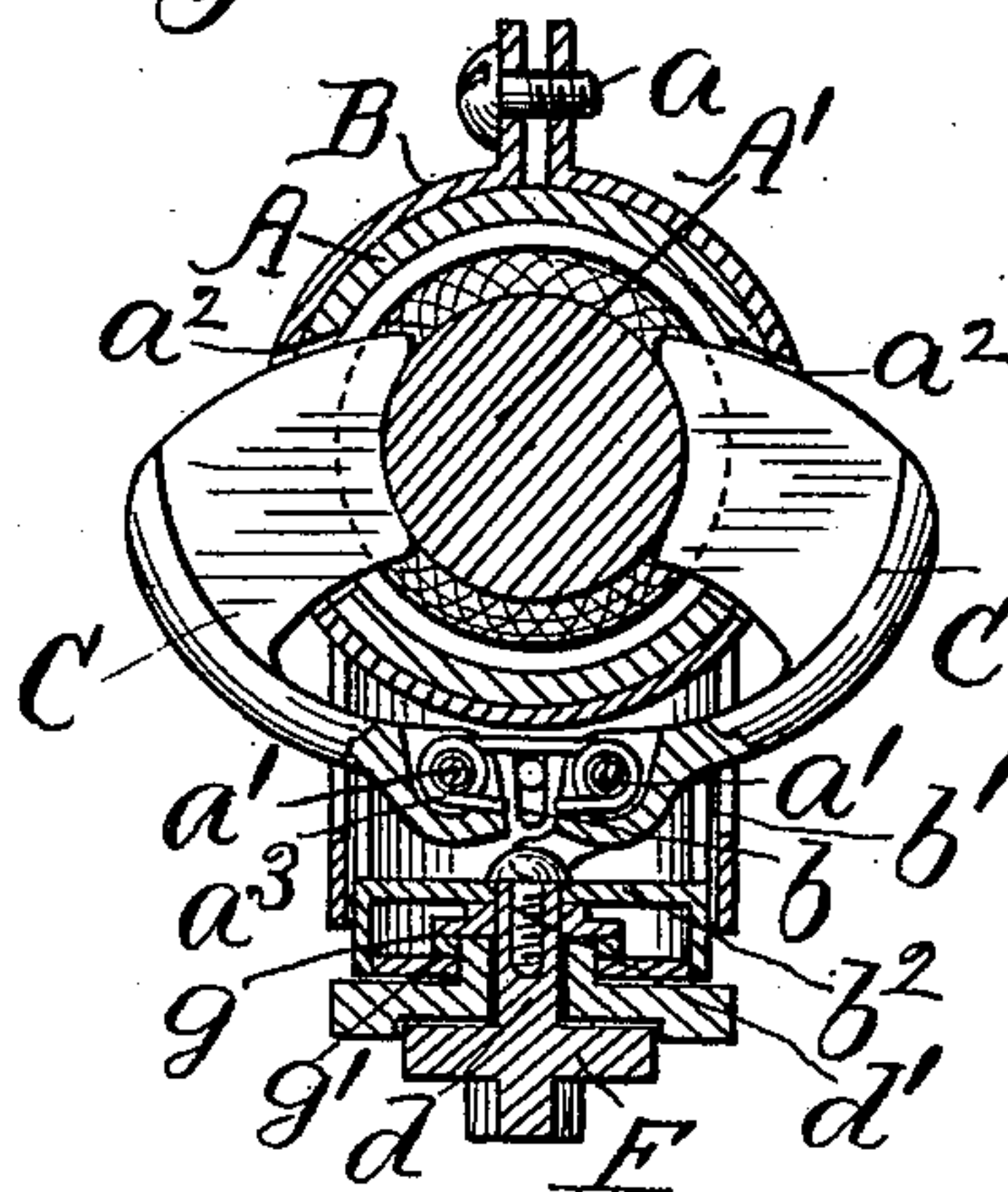


Fig. 4.



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2 Sheets—Sheet 2.

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Fig. 5.

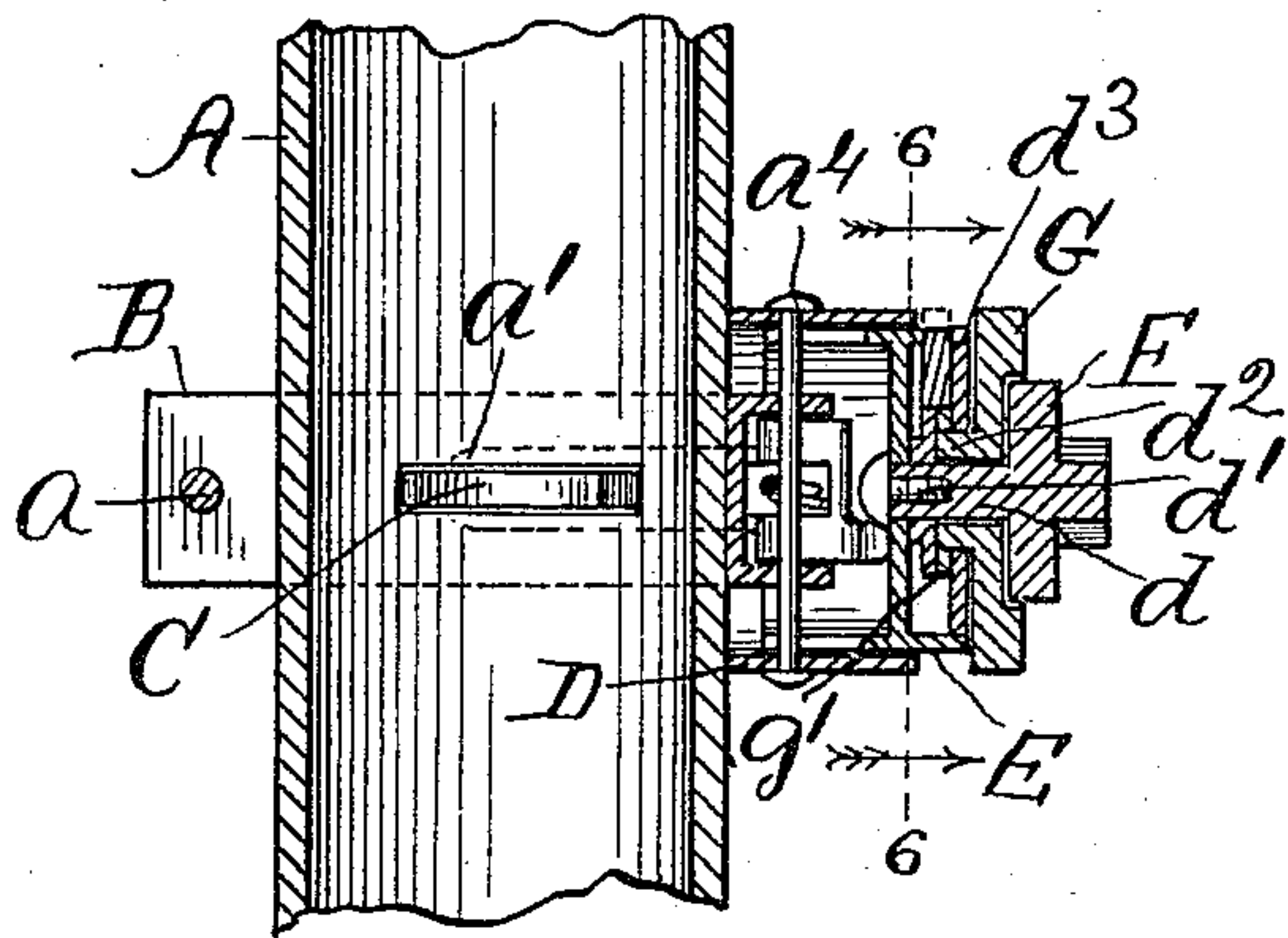


Fig. 6.

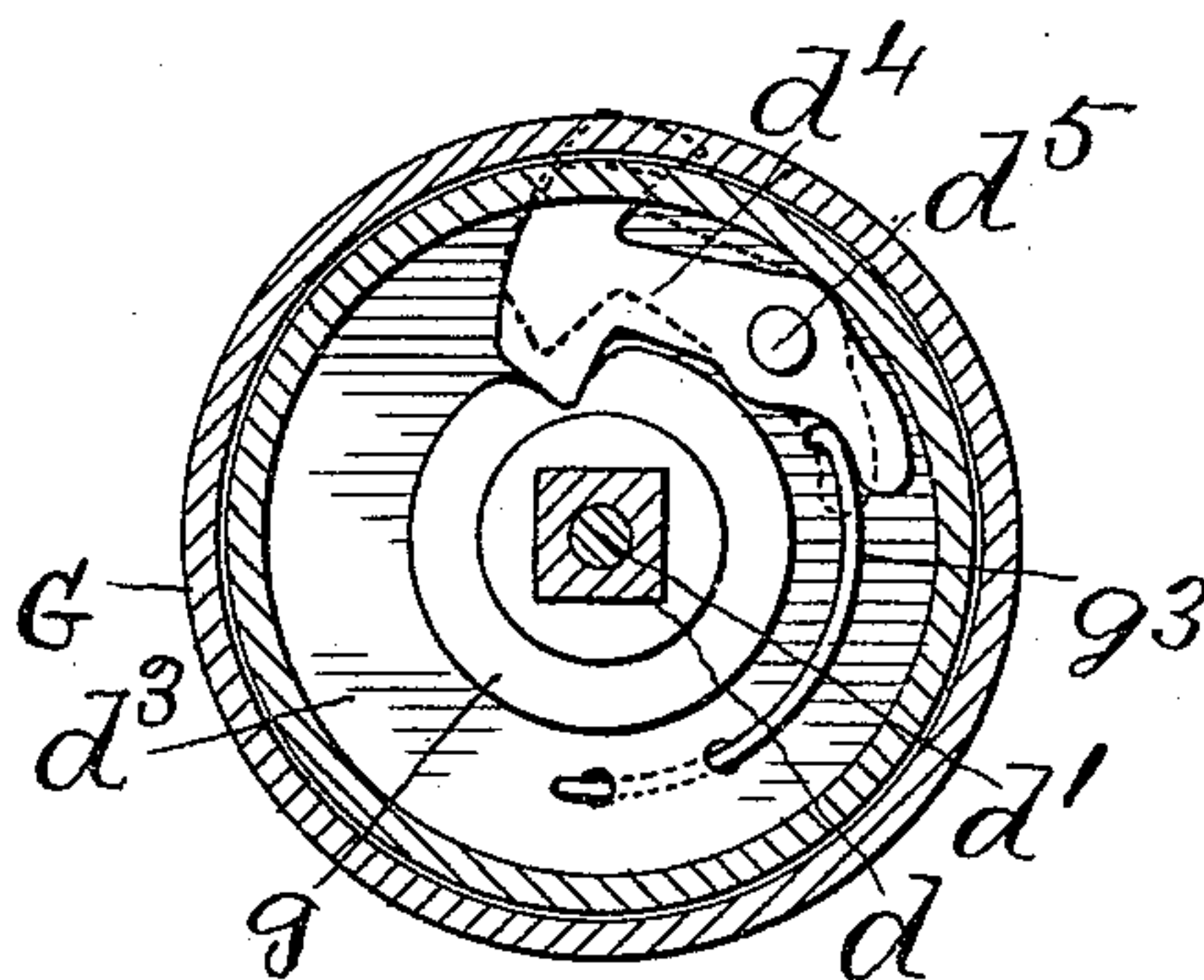


Fig. 7.

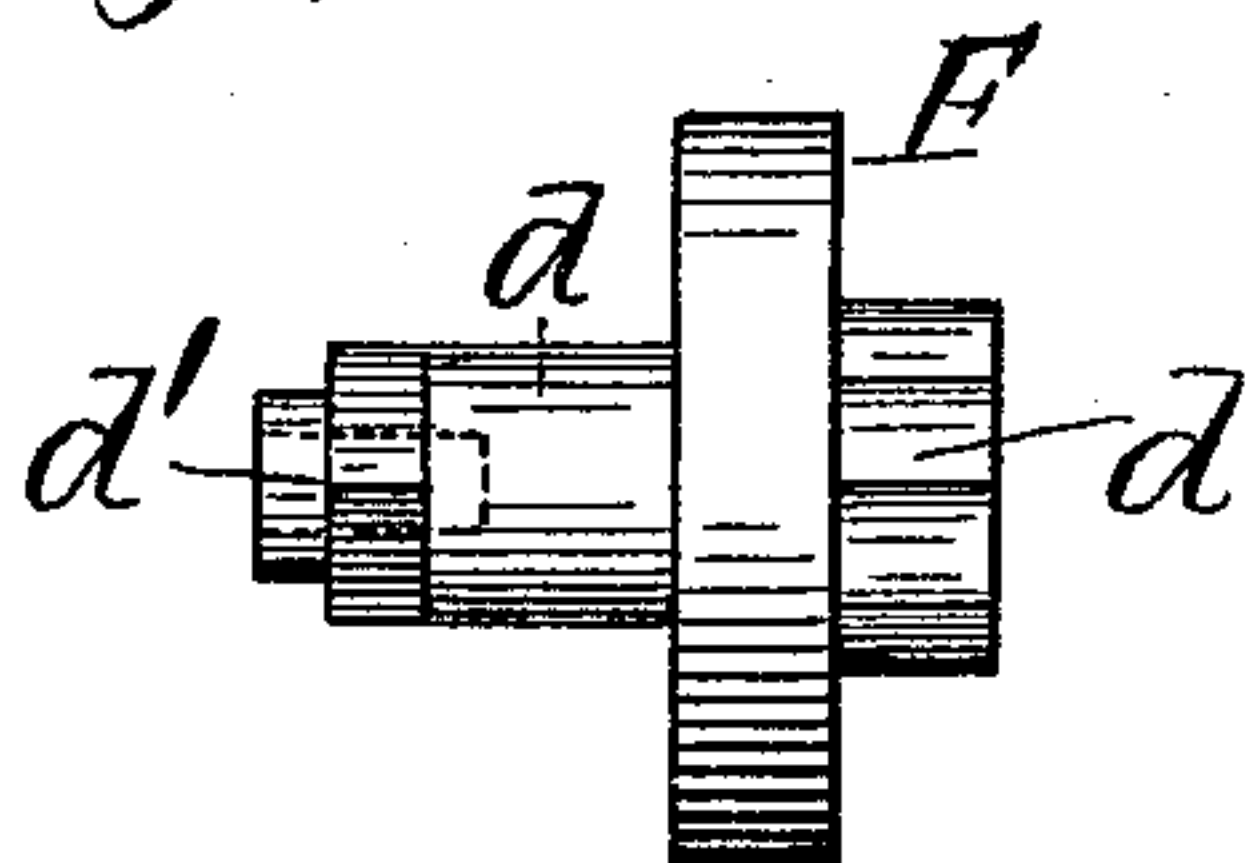


Fig. 8.

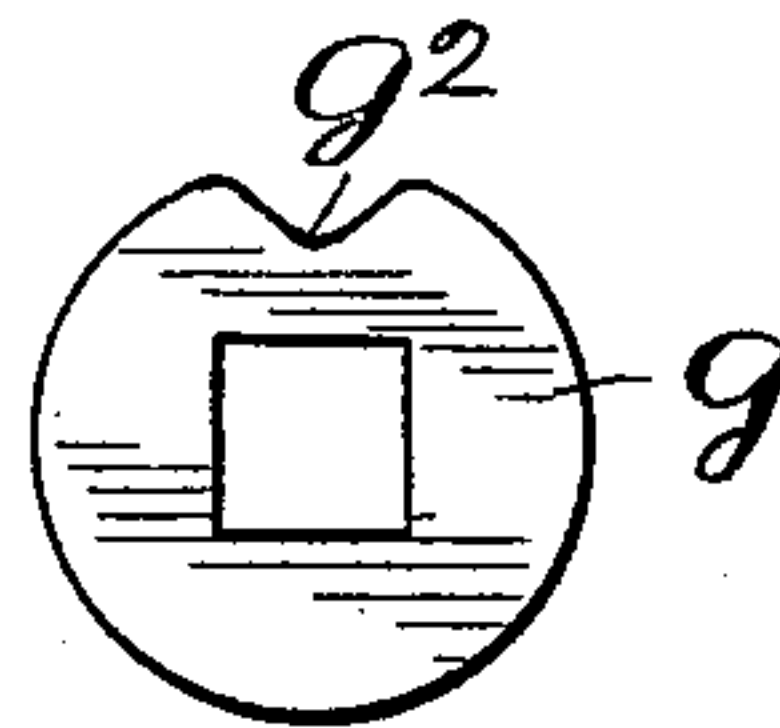


Fig. 9.

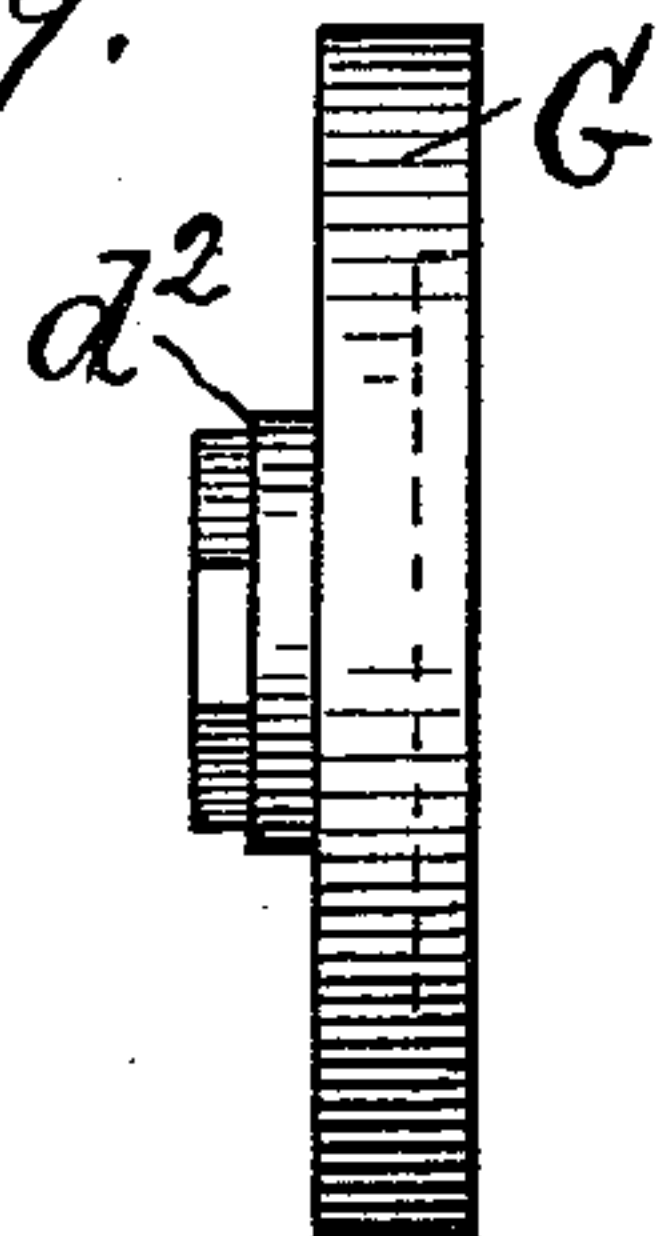
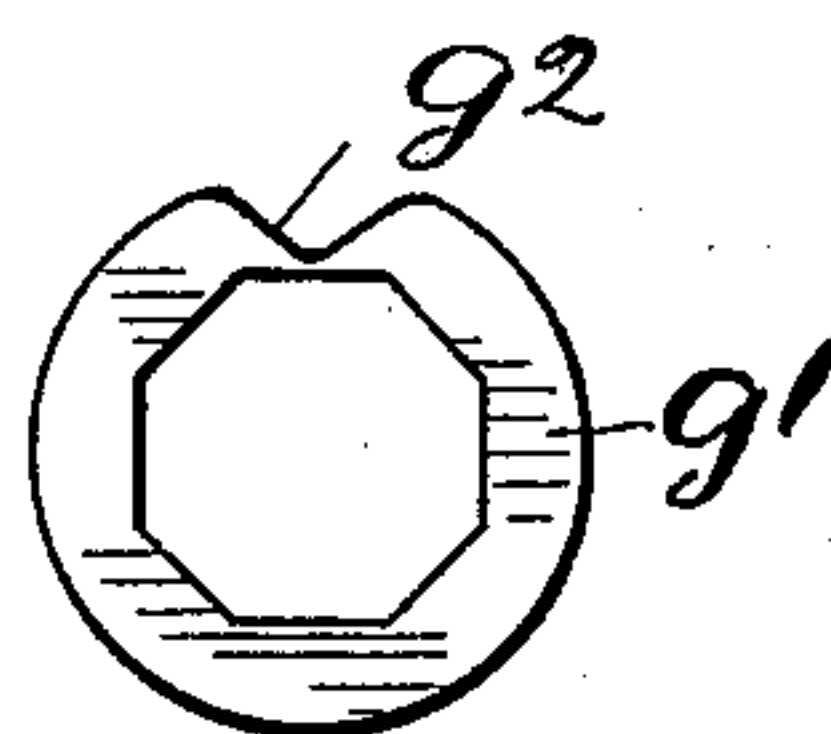


Fig. 10.



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UNITED STATES PATENT OFFICE.

FERDINAND C. ROBERTS, OF CHICAGO, ILLINOIS.

WHIP-SOCKET.

SPECIFICATION forming part of Letters Patent No. 536,657, dated April 2, 1895.

Application filed July 9, 1894. Serial No. 516,941. (No model.)

To all whom it may concern:

Be it known that I, FERDINAND C. ROBERTS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Locking Whip-Sockets, of which the following is a full, clear, and exact description that will enable others to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to improvements in that class of devices that are attached to vehicles for holding a whip, and has for its object to provide a socket or holder of this character wherein a whip may be either inserted loosely or locked in place as circumstances require.

Figure 1 is a front elevation of a device embodying my improved features, the whip being shown in place and broken away; Fig. 2, a vertical longitudinal section on line 2, Fig. 1, looking in the direction indicated by the arrow; Fig. 3, a horizontal section on line 3, Fig. 1. Fig. 4 is a similar view showing the whip locked in place; Fig. 5, a broken-away vertical, longitudinal section, illustrating details of the locking mechanism; Fig. 6, a transverse section through the locking mechanism on line 6, Fig. 5; and Figs. 7, 8, 9 and 10 enlarged detached details relating to the locking-part.

Referring to the drawings, A represents an ordinary socket or holder, and A' the butt-end of a whip inserted therein. An open band B encircles the socket at a convenient point and is secured thereto by a clamping-screw a inserted through the meeting ends. The outer ends of the companion clamping-jaws C C are secured to band B by pivot-pins $a' a'$, the opposite or inner undetached ends extending inside of the socket through a slot a^2 in the band and socket at opposite sides, as shown in Figs. 3 and 4. The normal closed position of the locking-jaws is shown in Fig. 3; while in Fig. 4, they are shown in their clamping position; the whip being inserted. These clamping-jaws are automatically held in their normally closed or locking position by means of a spring a^3 (Figs. 3 and 4) coiled

on pivot-pins $a' a'$; the loose ends bearing against the adjacent ends of the locking-jaws.

A tube D is rigidly secured to the band B by a pin a^4 , and incloses the outer ends of the clamping-jaws. A sleeve E is fitted closely to the inside of the tube D and is adapted to have a slight telescopic or endwise movement therein. This sleeve is provided with a slot b in the upper and under side (Figs. 3, 4 and 5) through which passes the pin a^4 securing tube D to band B, thus providing for a limited endwise movement of said sleeve. The tube and sleeve are also cut out on their respective sides, as at b' , to permit of a free movement of the clamping-jaws, as shown in Figs. 3 and 4.

The sleeve E is provided with a diaphragm b^2 which is adapted to bear against the outer ends of the clamping-jaws when the sleeve is forced inwardly, which has the effect of spreading the clamping-ends of the jaws for the insertion or removal of the whip.

The means for locking the clamping-jaws in their closed position consists of a simple and convenient arrangement which will next be described.

A rotatable locking-dial or disk F (Fig. 7) is provided with a stem d , the inner end of which has a loose contact with the diaphragm in sleeve E and is held loosely in place by means of a screw d' , which permits of a rotary but not an endwise movement. The outer projecting end of the stem forms a finger-grasp in rotating the locking-dial. A second rotatable dial G (Fig. 9) is provided with a hub d^2 and is loosely mounted on stem d . These companion dials or disks are provided on their faces with letters arranged at intervals, as shown in Fig. 1. Numerals or other characters may be used, instead of letters shown, in forming a locking combination. A disk-plate d^3 is mounted on hub d^2 close to the inner side of dial G and has a pawl d^4 pivoted thereto, as at d^5 , Fig. 6. The tumblers g and g' (Figs. 8 and 10) are also mounted on hub d^2 , adjacent to plate d^3 and are provided with notches g^2 . The locking-end of pawl d^4 is adapted to engage with these notches; the spring g^3 bearing against the opposite end of the pawl and holding the

same normally in contact with the tumblers. By this arrangement the whip may be placed loosely in the socket or holder, the lower end resting on top of the clamping-jaws, as shown
5 in Fig. 1, or the same may be inserted and held between the clamping-jaws which would ordinarily be sufficient. When necessary, however, the lock part may be used and the whip cannot then be removed unless the com-
10 bination is known.

One clamping-jaw may be used instead of two, as shown, in which case the whip-stock would be clamped against the side of the socket. By using two jaws the whip is held
15 in a true upright position and is more firmly secured in place.

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

20 1. The combination with a whip socket, provided with slotted openings on opposite sides, of a band, encircling the socket and having slots in line with those in said socket, clamping jaws, pivoted at their outer ends to
25 said band, the inner ends extending into the

socket through said openings, and a spring for normally holding said jaws in a clamping position, substantially as set forth.

2. The combination with a whip-socket, of an encircling band, the companion clamping- 30 jaws, located on opposite sides and working through slotted openings in said socket and band, a tube, secured to said band, a sleeve, provided with a diaphragm *a* and having an endwise movement in said tube, a rotatable 35 dial-plate, provided with a stem, the inner end of which is loosely attached to said diaphragm, a companion rotatable dial, provided with a hub part and loosely mounted on said stem, the companion tumblers, mounted on 40 the hub-part, and a pawl for holding the tumblers in a locked position, whereby the companion clamping-jaws are locked against the removal of an object inserted therebetween, substantially as set forth.

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Witnesses:

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