

(No Model.)

B. F. D. MILLER.

WHIP SOCKET.

No. 330,256.

Patented Nov. 10, 1885.

Fig. 1

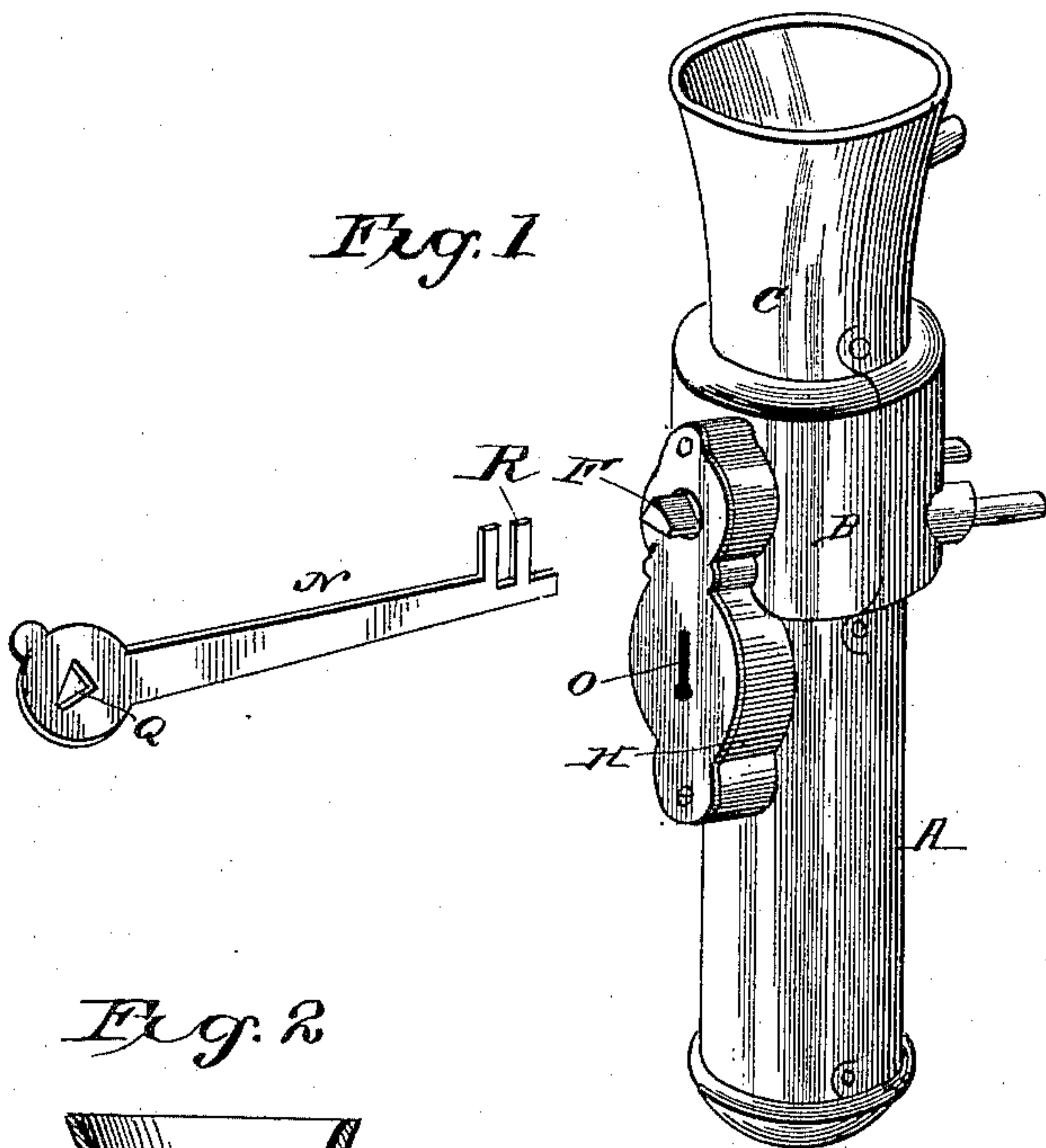


Fig. 2

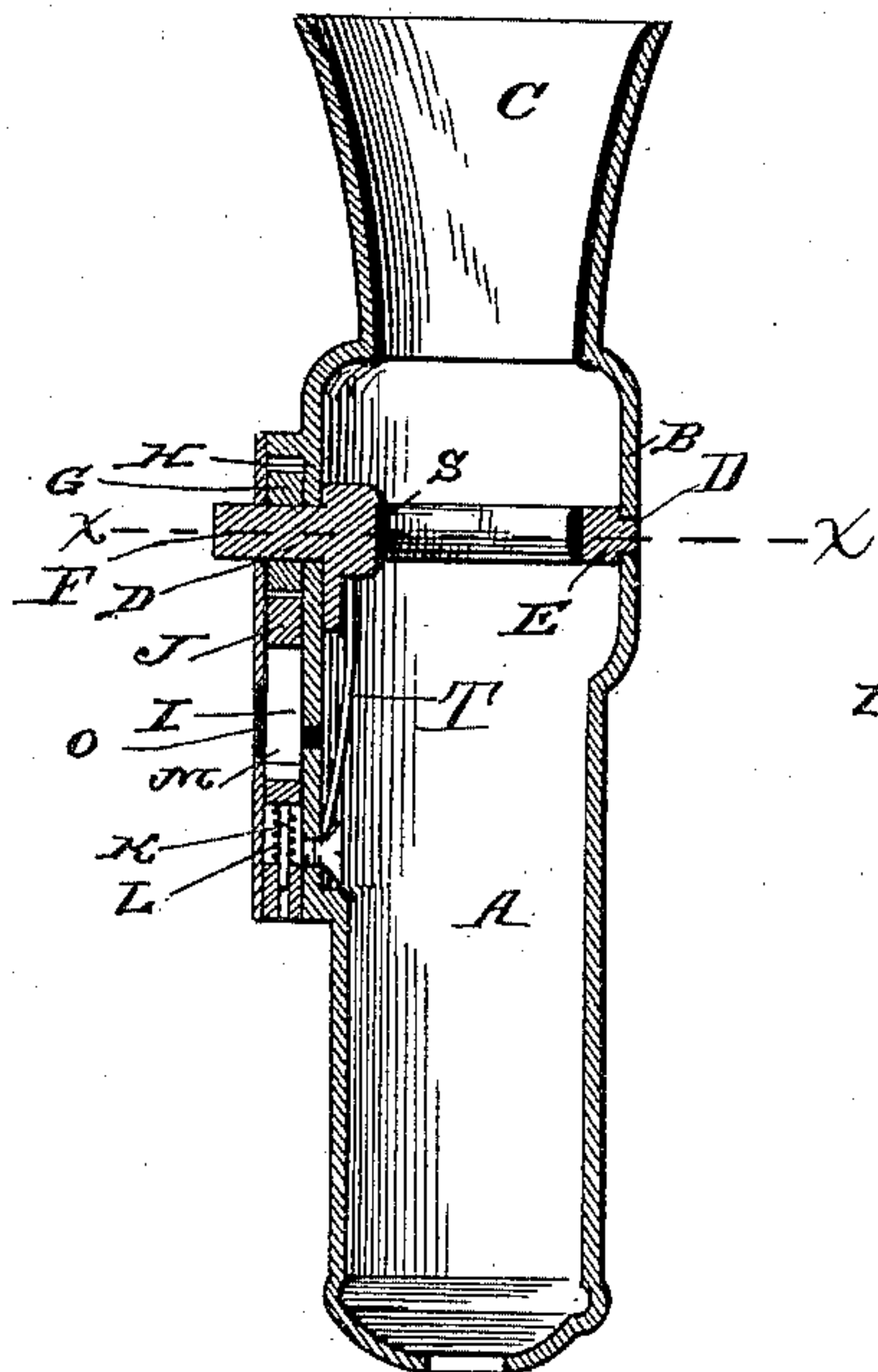


Fig. 3

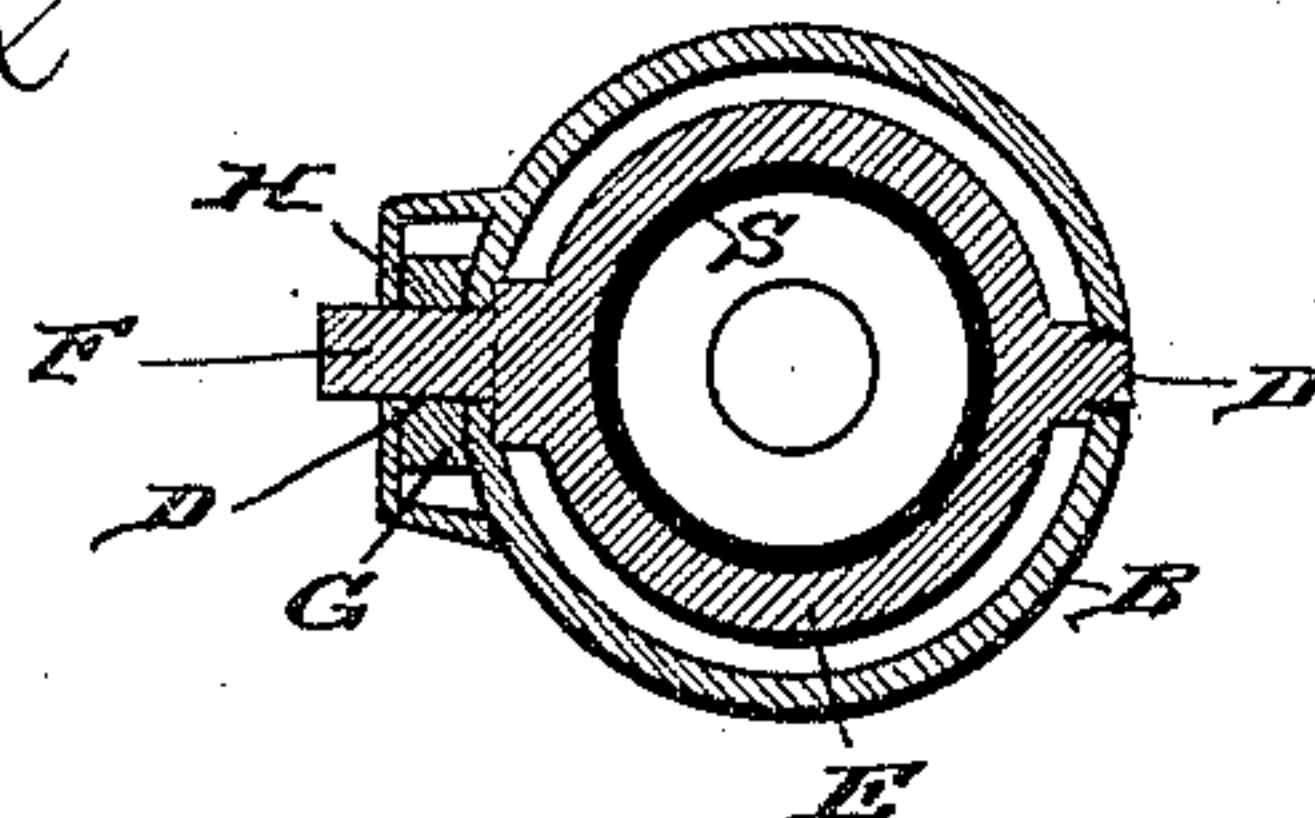
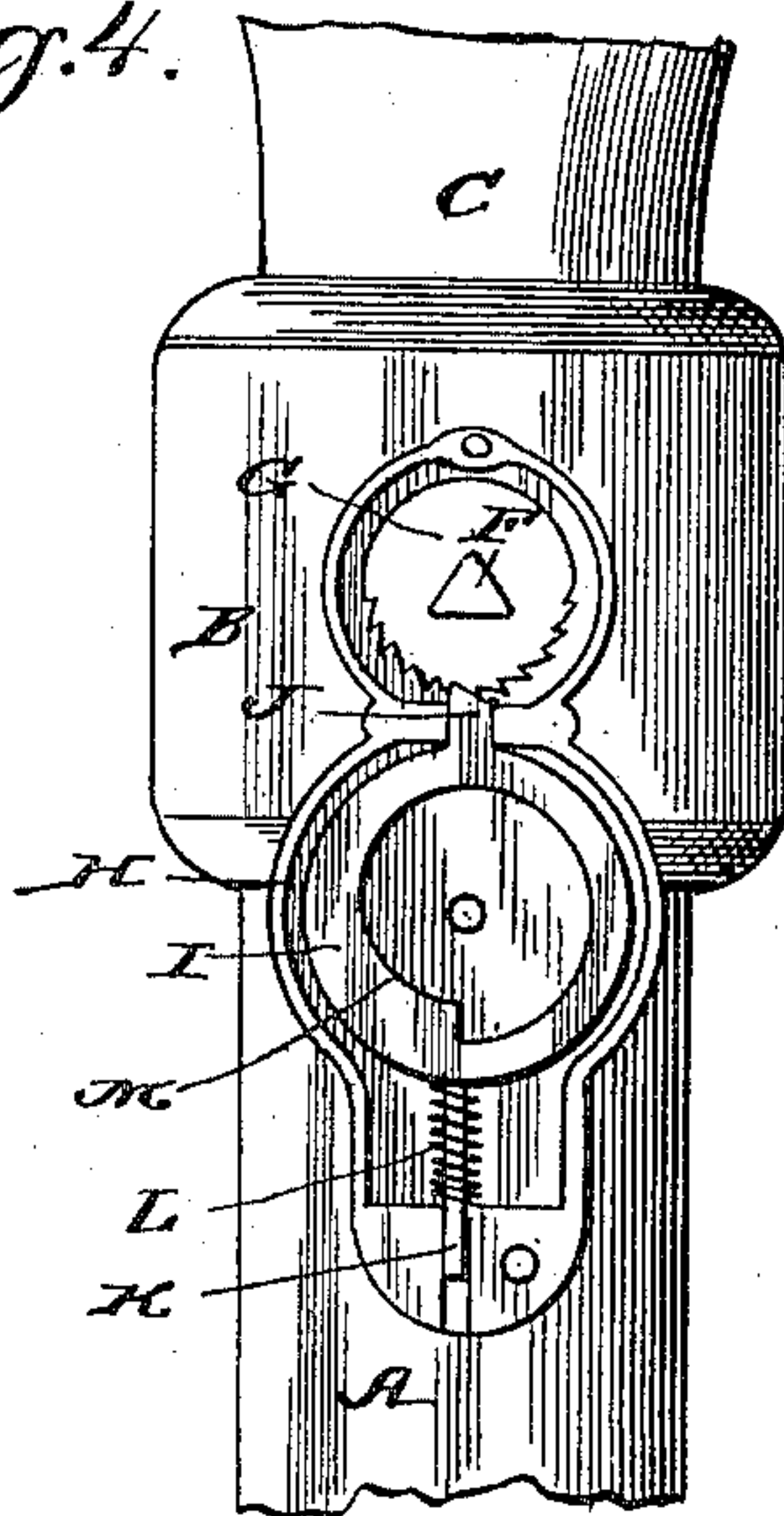


Fig. 4



WITNESSES:

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UNITED STATES PATENT OFFICE.

BENJAMIN F. D. MILLER, OF WOOSTER, OHIO, ASSIGNOR TO ISAAC N. KINNEY AND WILLIAM P. KINZER, OF SAME PLACE.

WHIP-SOCKET.

SPECIFICATION forming part of Letters Patent No. 330,256, dated November 10, 1885.

Application filed April 4, 1885. Serial No. 161,212. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN F. D. MILLER, a citizen of the United States, and a resident of Wooster, in the county of Wayne and State of Ohio, have invented certain new and useful Improvements in Whip-Sockets; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved whip-socket. Fig. 2 is a vertical transverse sectional view of the same. Fig. 3 is a horizontal sectional view taken on the line *x x* in Fig. 2. Fig. 4 is a front view with a portion of the casing removed for the purpose of exposing the locking mechanism.

The same letters refer to the same parts in all the figures.

This invention relates to that class of whip-sockets which are provided with devices or attachments for securing the whips inserted therein by means of suitable locking devices; and it has for its object to provide a lock whip-socket which shall possess superior advantages in point of simplicity, durability, and general efficiency. With these ends in view the invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A designates a tubular cylinder, forming the body of my improved whip-socket, and which may be constructed in one or more pieces or sections, as may be deemed convenient or advantageous. The said tubular body is formed with an annular chamber or enlargement, B, above which is formed an upwardly-extending funnel-shaped flange, C.

The rear side of the tubular cylinder A is provided with suitable lugs, studs, or other means whereby it may be suitably attached to the dash-board of a vehicle, and the annular chamber or enlargement, B, is provided with bearings for a pair of lugs, D D, formed upon a ring or collar, E, which is arranged in the

said chamber, and the forward one of which extends through the front wall of the cylinder and is provided with a polygonal head or wrench-seat, F, and with a ratchet-collar, G, the function of which will be presently described.

The front side of the cylinder A is formed or constructed with a casing or rim, H, which incloses the collar G, and also a ring, I, arranged below the same, and formed with an upwardly-extending-toothed shank, J, engaging the said ratchet-collar, and with a downwardly-extending shank, K, on which is coiled a spring, L, serving to force the said ring or collar in an upward direction and the toothed shank J into engagement with the ratchet-collar G. The said ring I is provided with an interior eccentric flange, M, adapted to be engaged by a key, N, which may be inserted through a hole or opening in a front plate, O, attached to the rim or casing H, as shown.

The key is provided with a wrench-hole, Q, adapted to engage the seat F and a bit, R, which will engage and operate the ring I.

The ring or collar E may be provided with an interior ring or washer, S, of rubber or other suitable material, and a similar ring or washer may be arranged in the funnel-shaped extension of the cylinder A.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of this invention will be readily understood. The construction is simple and inexpensive. When a whip is inserted into the socket, the ring E may be turned by applying the key to its wrench-seat, thereby turning the said ring to a diagonal position and causing it to retain the whip firmly and securely in the socket. When it is desired to release or remove the whip, this may be effected by inserting the key through the hole in the front of the casing and turning it, thereby forcing the ring I in a downward direction, disengaging its toothed shank J from the ratchet-collar G, and permitting the collar E to turn so as to release the whip. A suitably-arranged spring, T, serves to retain the collar E normally in a horizontal position.

Having thus described my invention, I claim

and desire to secure by Letters Patent of the United States—

1. In a whip-socket, the combination, with a tubular cylinder or socket, of a horizontal ring or collar having projecting lugs upon its opposite sides and arranged to vibrate or revolve upon said lugs in said sockets, and means for retaining the same in any position to which it may be adjusted, substantially as and for the purpose set forth.

2. In a whip-socket, the combination of a tubular socket, a vibrating or revolving ring or collar having projecting lugs upon its opposite sides arranged in bearings in the same, a spring arranged to retain the said collar normally in a horizontal position, and means for retaining it in any position out of the horizontal to which it may be adjusted, substantially as and for the purpose herein set forth.

3. In a lock whip-socket, the combination of a tubular socket having an annular enlargement or chamber, and a funnel-shaped flange extending upwardly from the same, with a revolving ring or collar having projecting lugs upon its opposite sides arranged horizontally in said enlargement or chamber, and mechanism for adjusting and retaining the said collar, substantially as and for the purpose set forth.

4. In a lock whip-socket, the combination

of a tubular socket, a ring or collar having projecting lugs upon its opposite sides arranged horizontally in the same, one of said lugs being provided with a wrench-seat and with a ratchet-collar, a vertically-sliding ring having a stud engaging the said ratchet-collar, and an interior eccentric flange, a spring arranged to force the said ring in an upward direction, and a spring arranged to hold the horizontal holding-collar normally in a horizontal position, substantially as and for the purpose herein set forth.

5. In a lock whip-socket, the combination of a tubular socket, a revolving holding-ring having projecting lugs upon its opposite sides and arranged horizontally within the same, one of said lugs extending from the said ring forwardly through the socket or casing, operating mechanism attached to and connected with the said trunnion, and a frame or casing attached to the socket and inclosing the said operating mechanism, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

BENJAMIN F. D. MILLER.

Witnesses:

A. S. McCLURE,

M. L. SMYSON.