

(No Model.)

C. LASMAN, Jr.
HITCHING DEVICE.

No. 441,175.

Patented Nov. 25, 1890.

FIG. 1.

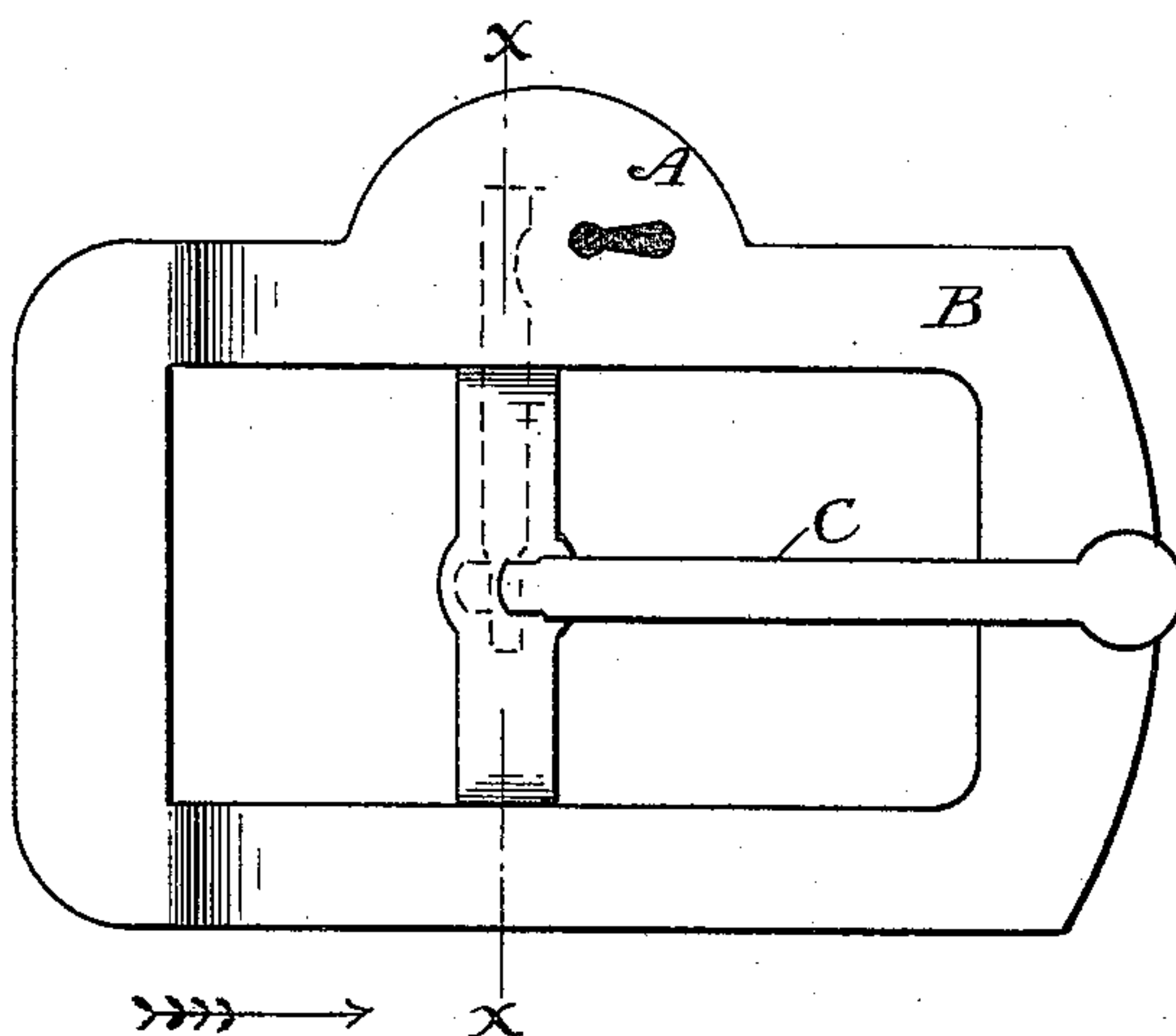


FIG. 2.

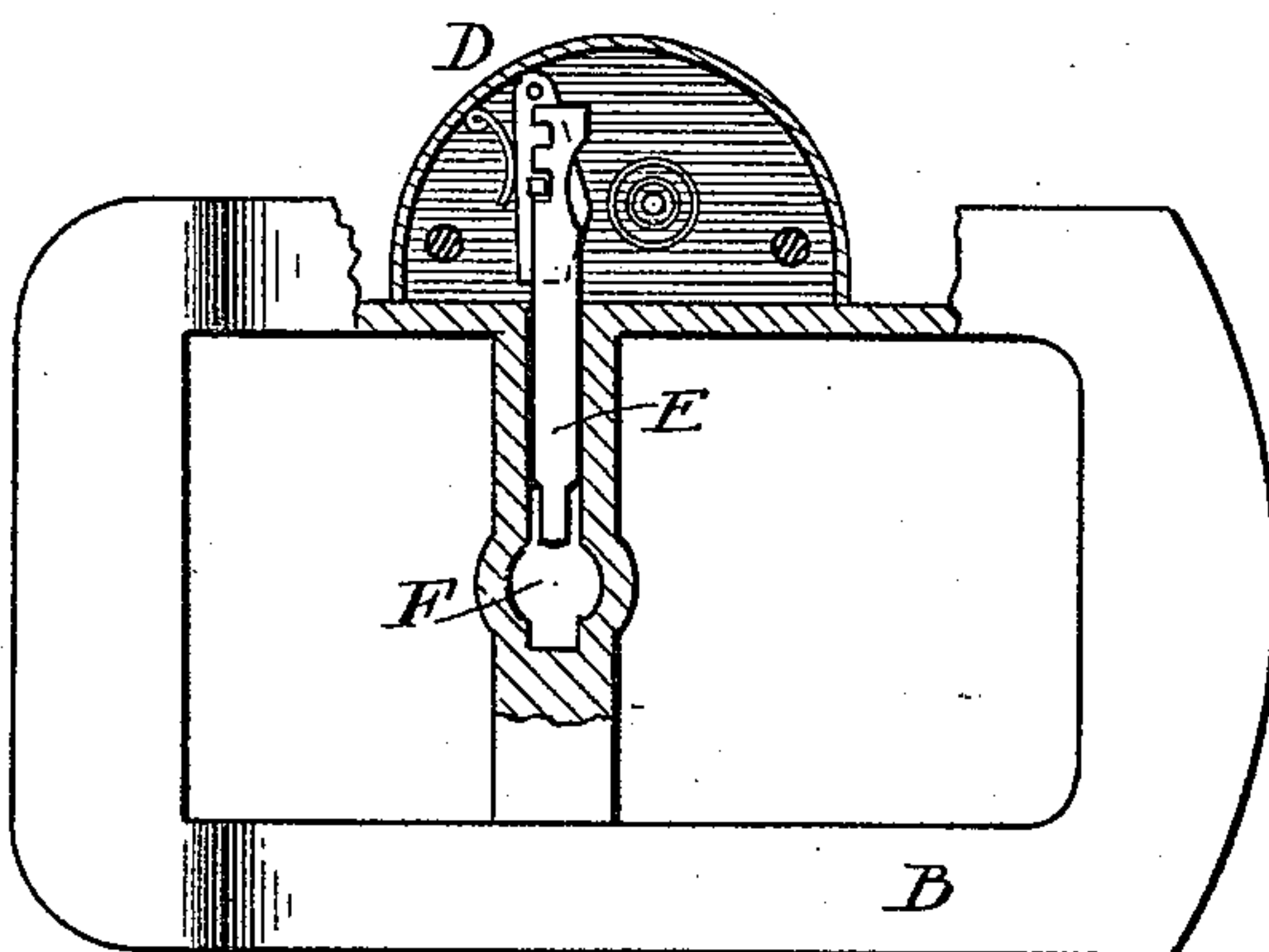


FIG. 3.

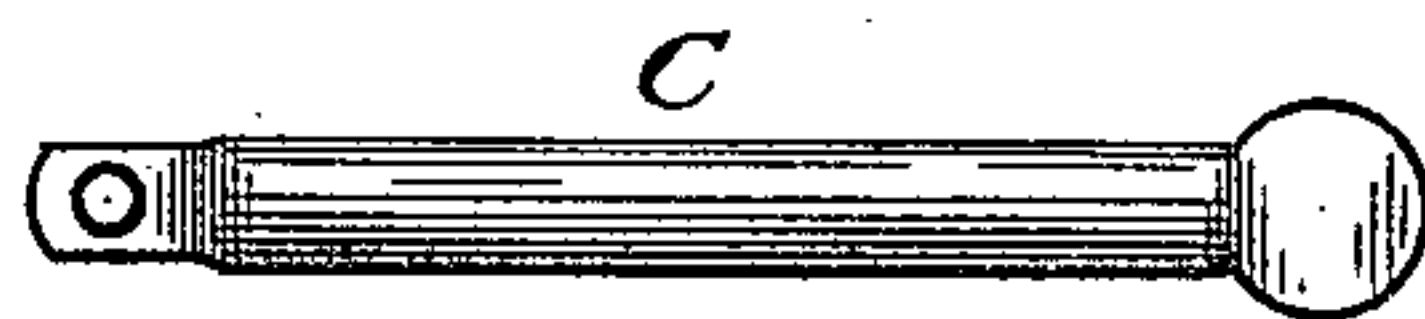
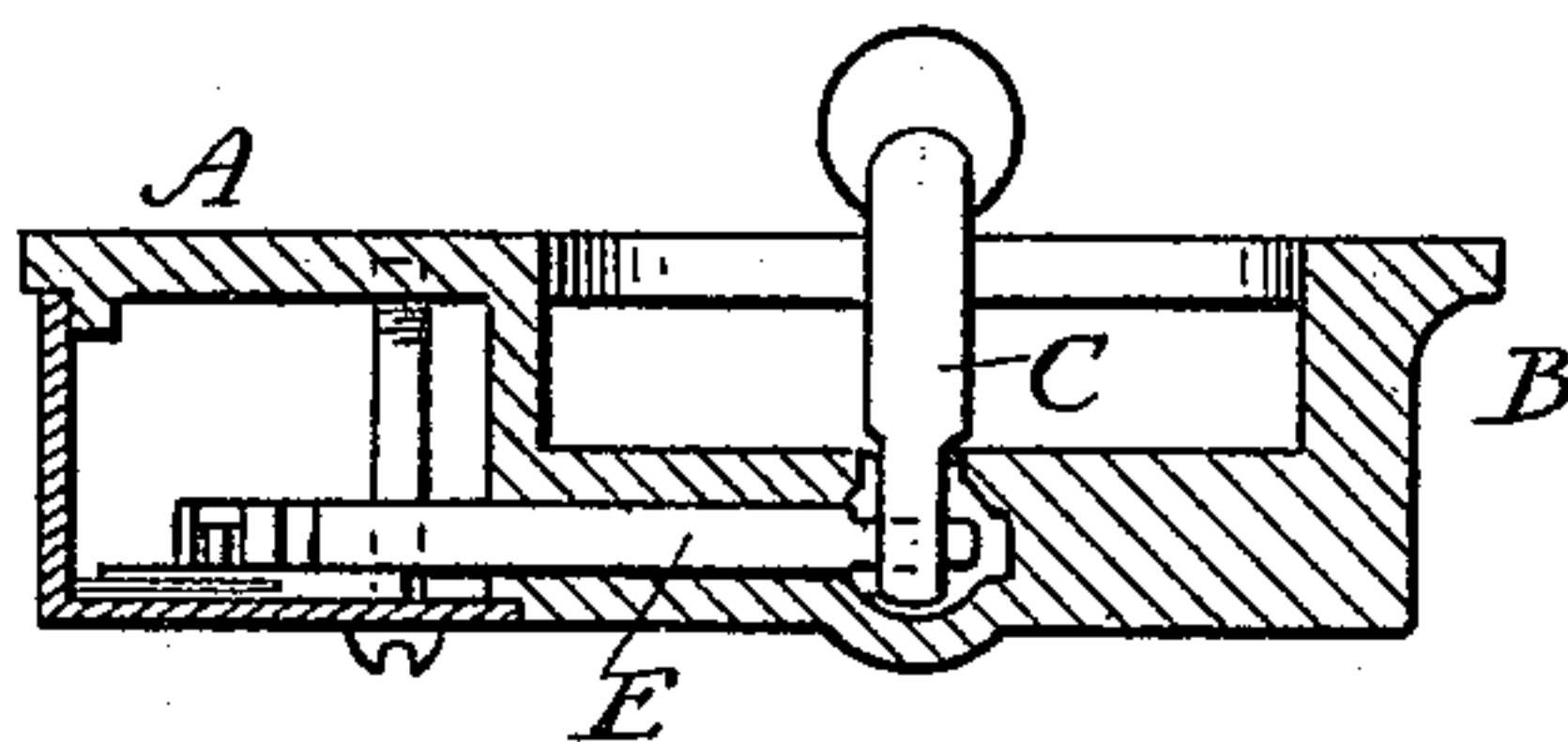


FIG. 4.

Witnesses:
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L. C. Kulmer.

Inventor:
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UNITED STATES PATENT OFFICE.

CHRISTIAN LASMAN, JR., OF CHICAGO, ILLINOIS.

HITCHING DEVICE.

SPECIFICATION forming part of Letters Patent No. 441,175, dated November 25, 1890.

Application filed February 3, 1890. Serial No. 339,084. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN LASMAN, Jr., of Chicago, in the State of Illinois, have invented a new and useful Buckle, of which the following is a specification.

My invention relates to buckles designed to be used with hitching-straps for securing horses when harnessed to vehicles; and the object of my improvement is to provide a buckle having a detachable pin or tongue adapted to be secured to a cross-bar of the buckle-frame by lock and key, whereby the hitching and unhitching are effected by removing or replacing the pin or buckle-tongue. This object I have attained by the buckle constructed as illustrated in the accompanying drawings, in which—

Figure 1 is a front or face view of such buckle, the detachable pin or tongue being secured in the cross-bar of the buckle-frame, as required to hold the strap in. Fig. 2 is a view of the reverse side partly in section, the pin or tongue being omitted. Fig. 3 is a section on the line $x x$ of Fig. 1, looking toward the right. Fig. 4 is a detail showing the pin or buckle-tongue detached.

In the drawings, A designates the buckle-frame, which is provided with an extension A' at one side. The central cross-bar B of said frame is made integral with and projects below the outer part, so that the strap can slide over said cross-bar and under the end pieces a in a straight line when the pin is removed, as appears from the relative position of these parts shown in Fig. 3. Said cross-bar is provided with a hole at F, into which the end of the pin or detachable tongue C can enter, the inclination of said hole being such that the opposite end of said tongue will rest on one of the end pieces a when the inner end is in said hole. From the hole F said cross-

bar is bored out hollow and provided with a sliding bolt E, which extends under the part A' and is connected with a tumbler a' , whereby it is detained in its different positions until the key raises the tumbler, as in a lock of ordinary construction. The inner end of the bolt E is adapted to enter a hole c in the pin or tongue when inserted in the hole F of the central cross-bar and hold the same in until unlocked by means of a key adapted to the lock, such key being applied in the key-hole a^2 .

D is the cap plate or piece, which is placed opposite to the extension A' and secured thereto by means of screws d for covering the end of the bolt and supporting the tumbler in connection therewith. The buckle is attached to the strap so that the draft of the strap will be in the same direction as the incline of the pin or tongue, so as to pull it against the cross-piece at the end of the frame upon which it is rested. The tongue is provided with a knob on the end for taking hold of to draw it out, and when the bolt E is withdrawn the tongue may readily be taken out without slacking the pull on the strap.

What I claim is—

As an improvement in lock-buckles, the frame A, provided with a hollow cross-bar B, having a lateral opening F, a lock, substantially as shown, on one side of said frame, having its bolt E extended through the hollow of said cross-bar, and a tongue C, provided with a hole at one end adapted to be applied in the lateral opening of the said cross-bar and engage said lock-bolt, as and for the purpose specified.

CHRISTIAN LASMAN, JR.

Witnesses:

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