

No. 775,127.

PATENTED NOV. 15, 1904.

J. R. CRONIN.

SASH LOCK.

APPLICATION FILED MAR. 1, 1904.

NO MODEL.

2 SHEETS—SHEET 1.

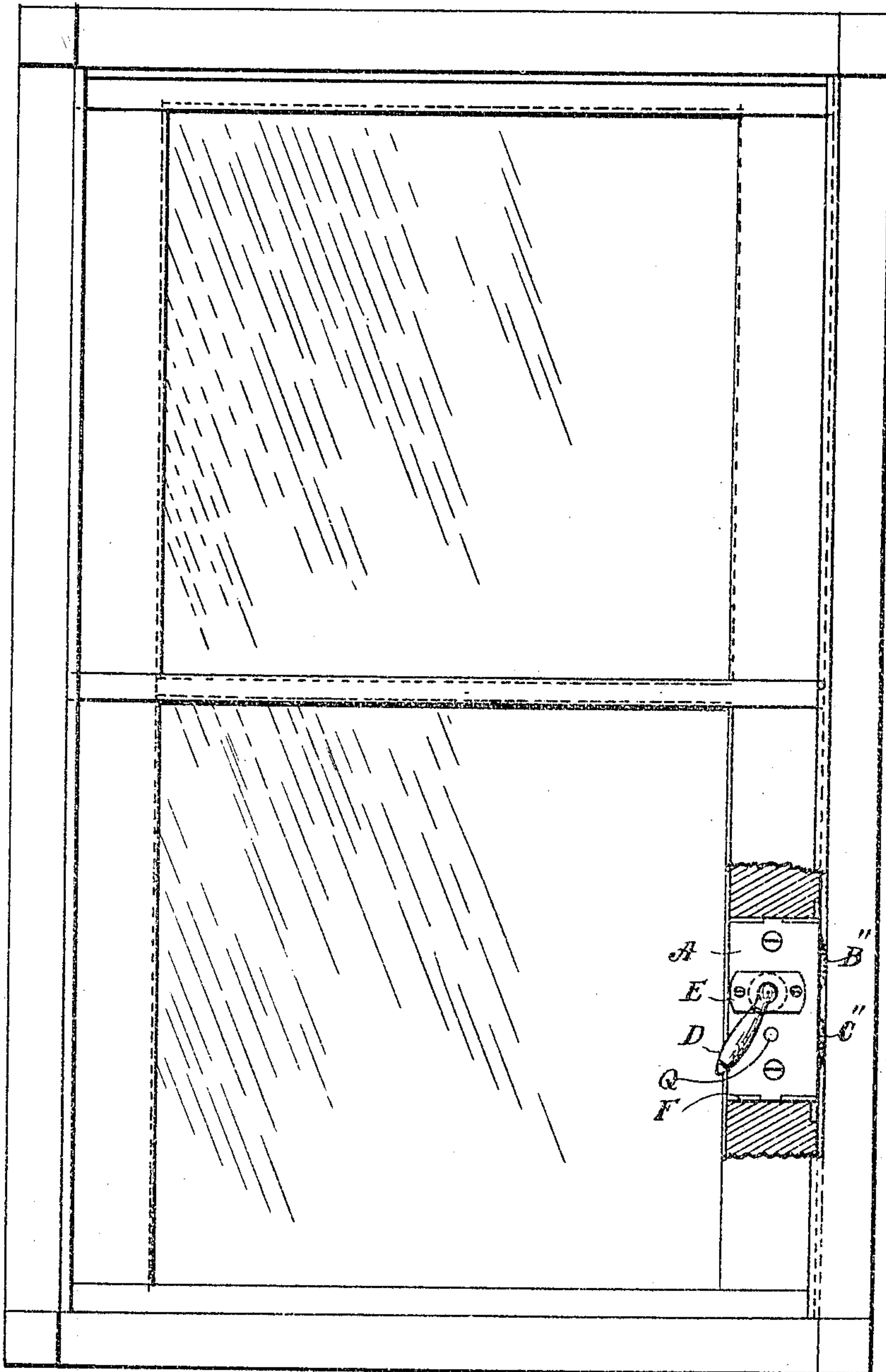


Fig. 1.

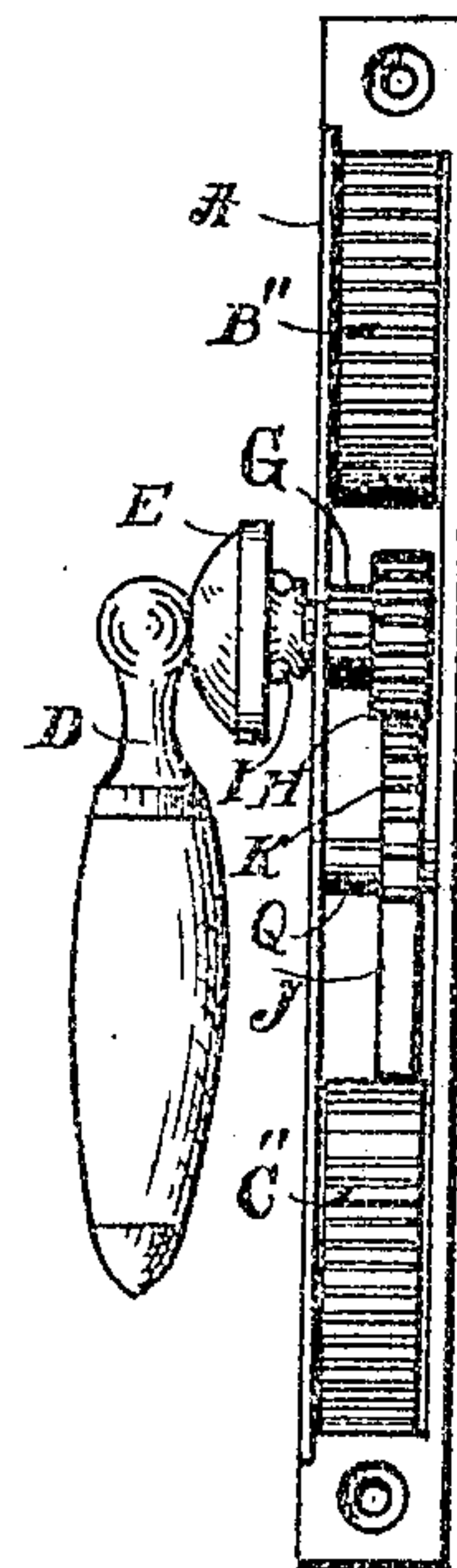


Fig. 2.

Witnesses

Joseph Cronin
Georgiana Chase

Inventor

John R. Cronin

By

Luther V. Moulton
Attorney

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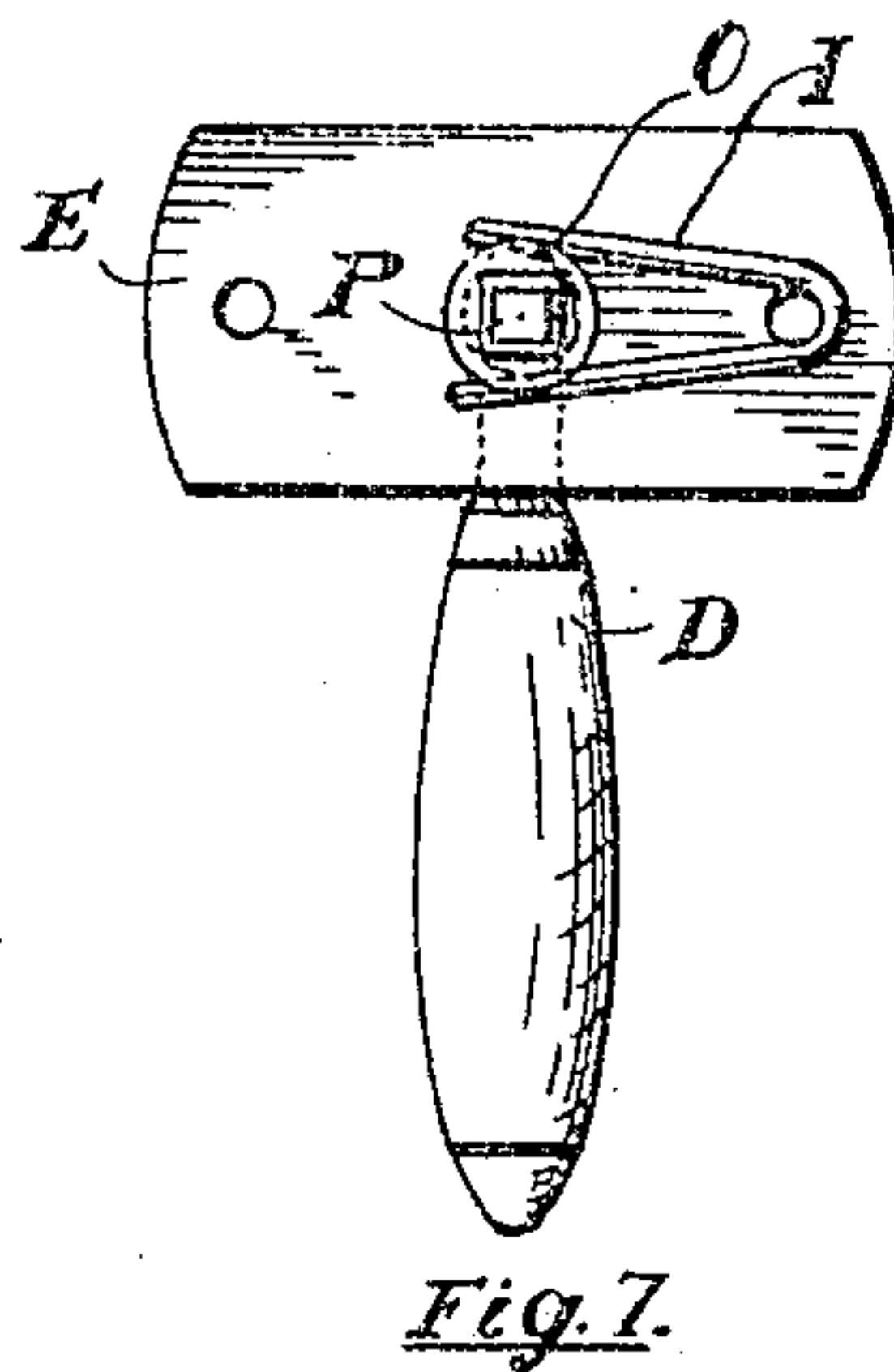
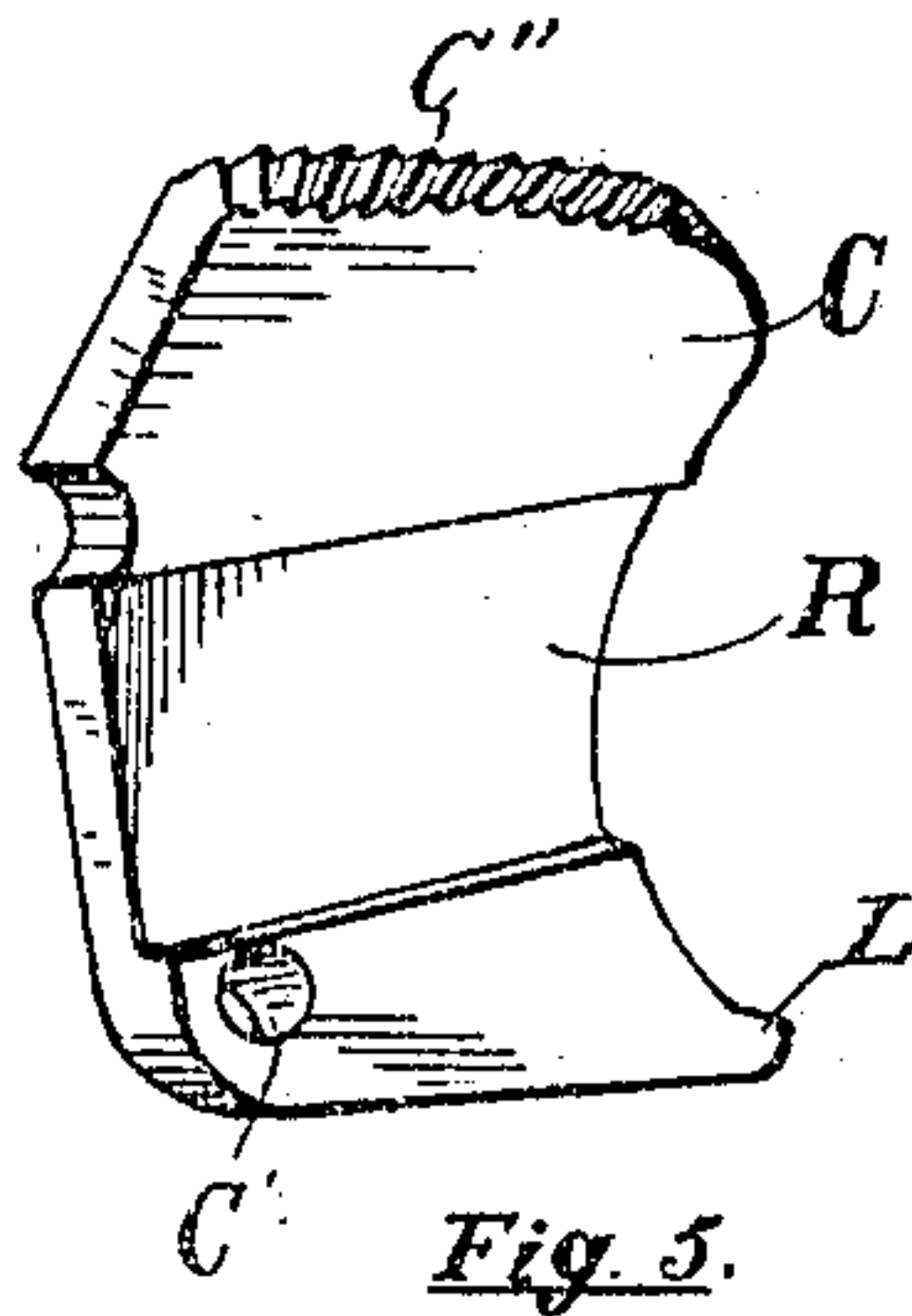
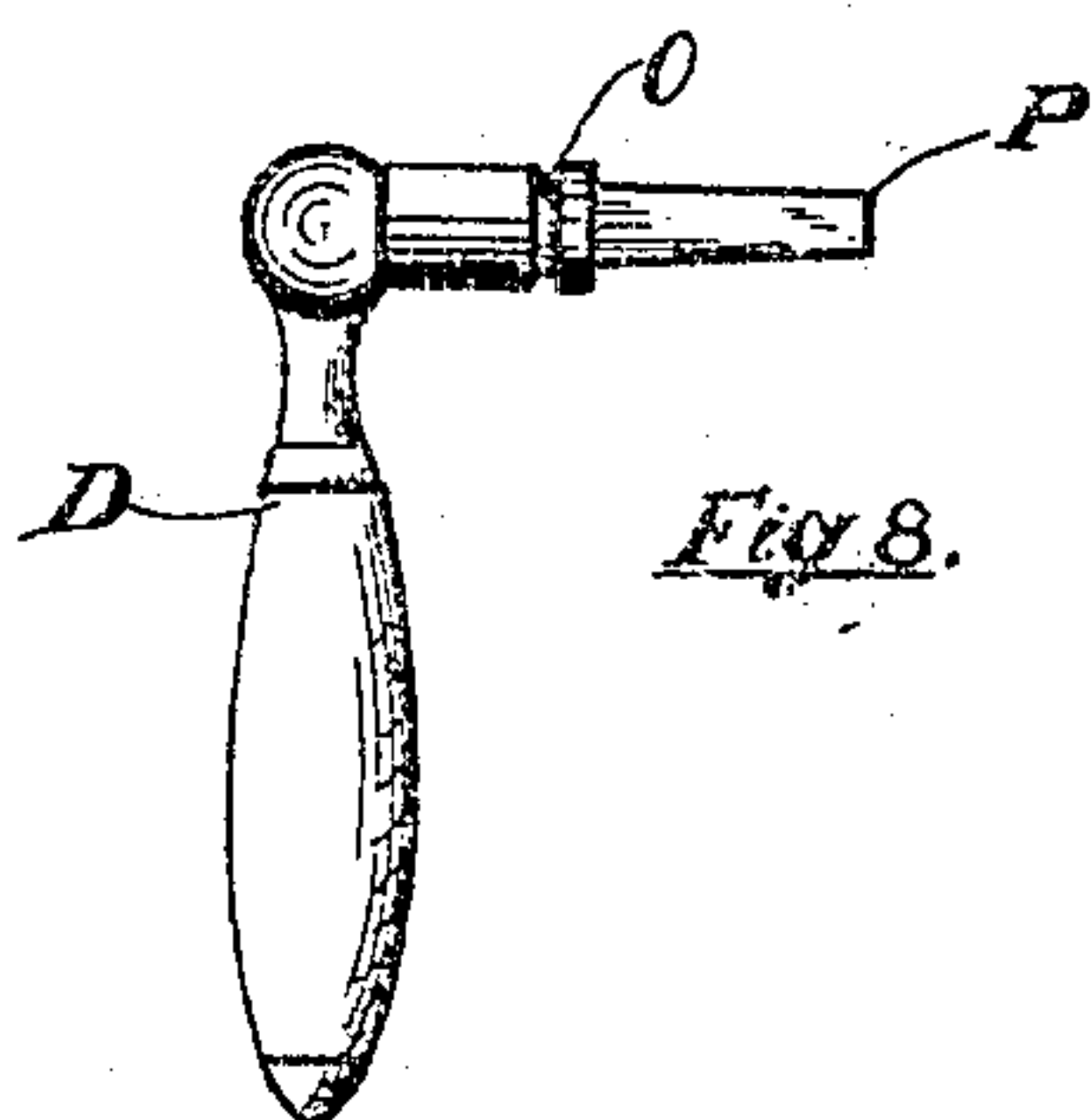
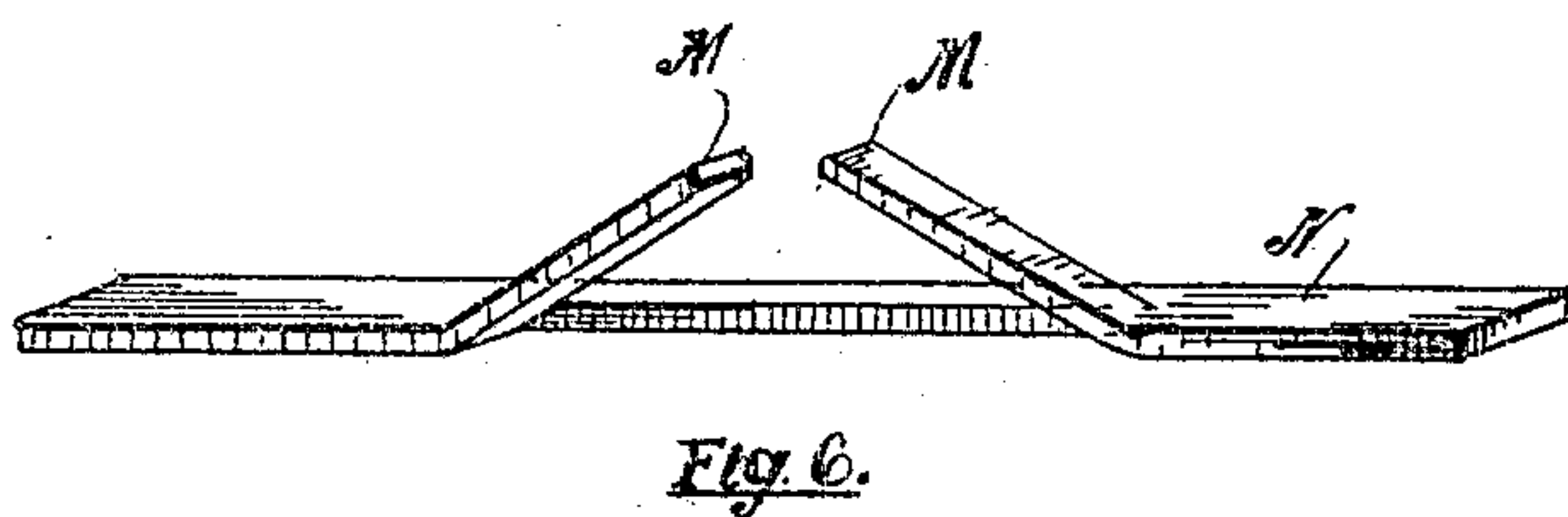
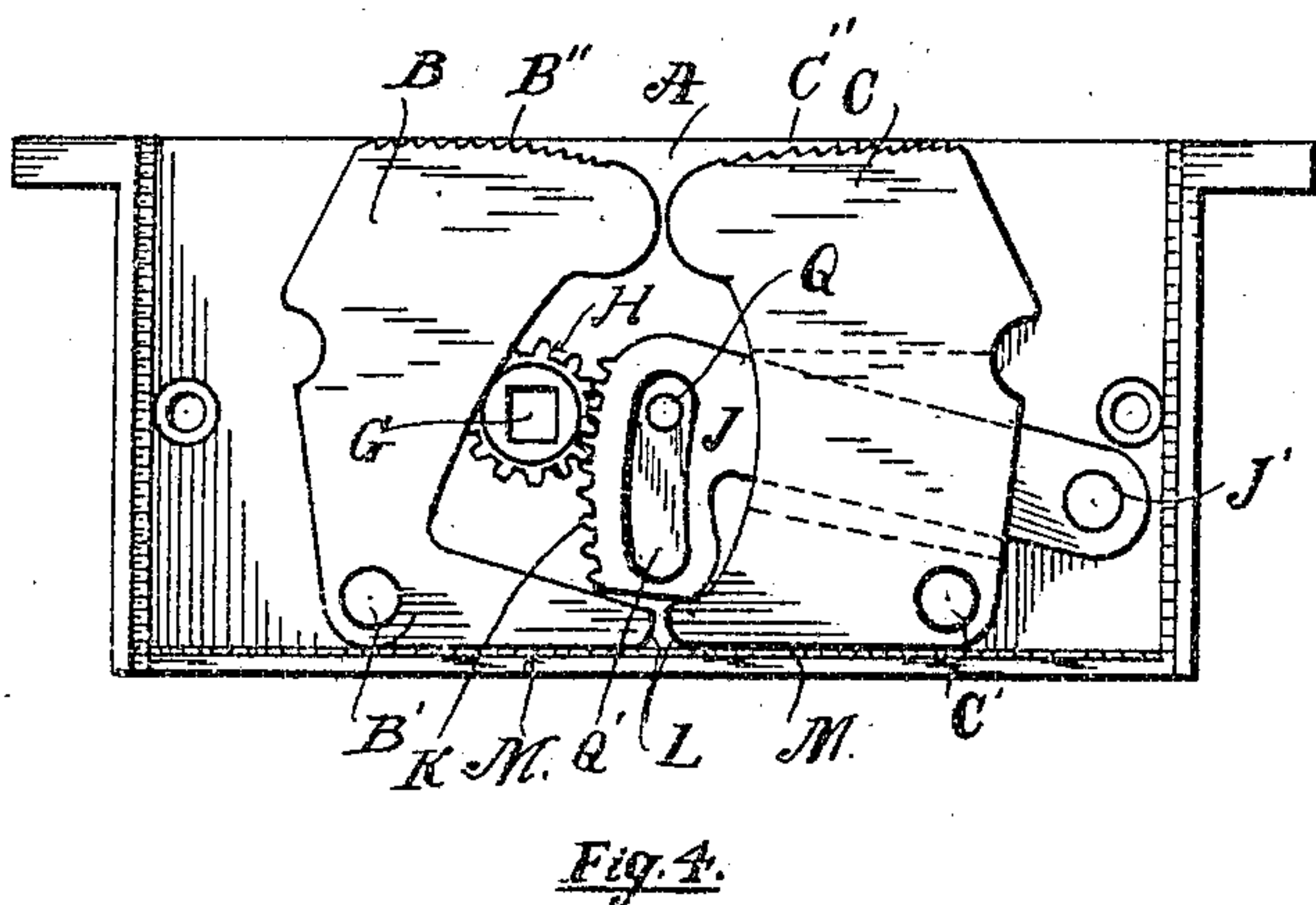
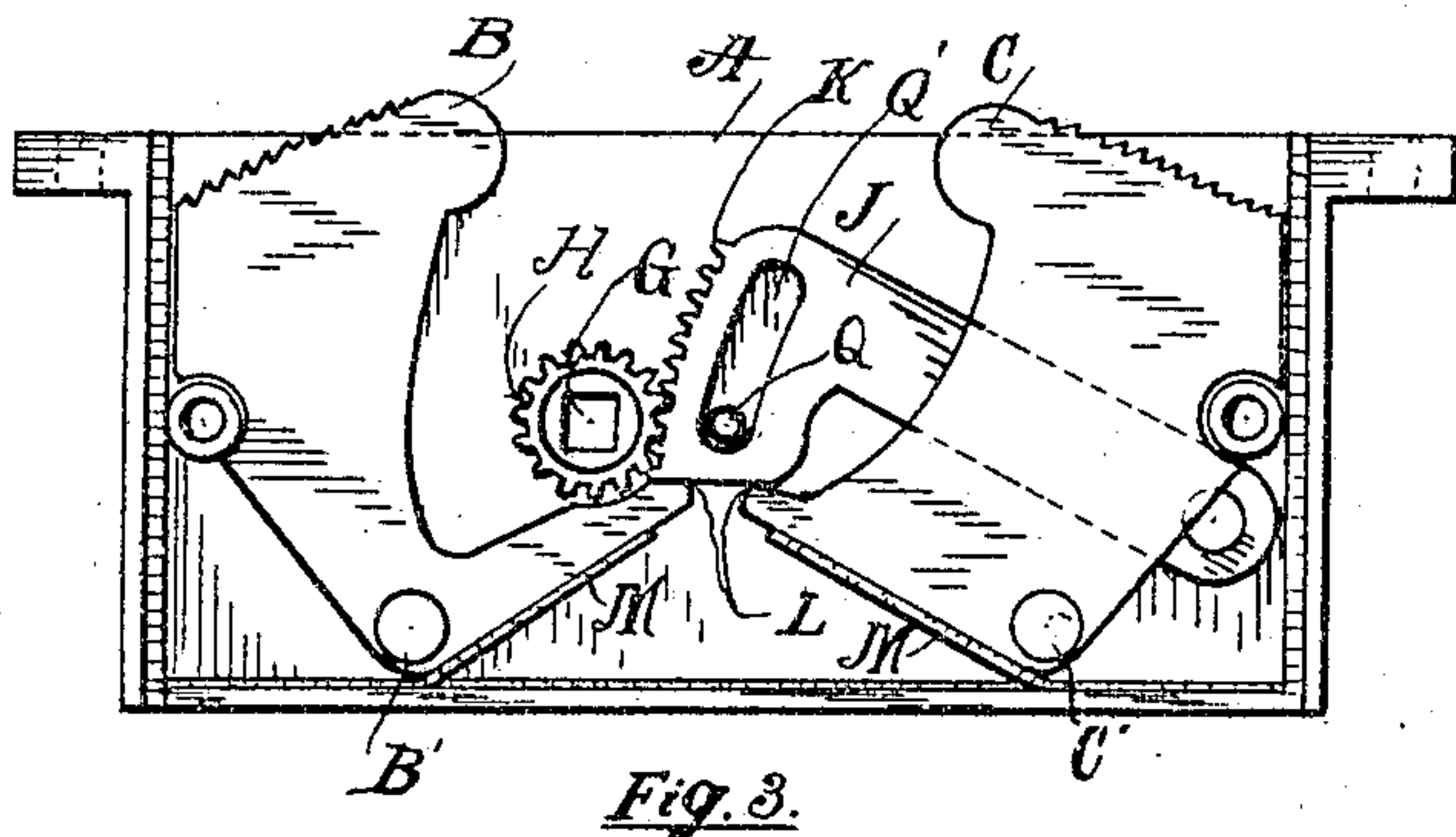
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Witnesses
Joseph K. Kewin
Georgiana Chace

Inventor
John R. Cronin
By
Luther V. Moulton
Attorney

UNITED STATES PATENT OFFICE.

JOHN R. CRONIN, OF GRAND RAPIDS, MICHIGAN.

SASH-LOCK.

SPECIFICATION forming part of Letters Patent No. 775,127, dated November 15, 1904.

Application filed March 1, 1904. Serial No. 196,111. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. CRONIN, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Sash-Locks; 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.

My invention relates to improvements in sash-locks; and its object is to provide the same with certain new and useful features, hereinafter more fully described, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is an elevation of a window-sash having my device attached and with a part of the sash broken away. Fig. 2 is an elevation of my device detached and enlarged; Fig. 3, a side elevation of the same with the detents released to lock the sash; Fig. 4, the same with the detents withdrawn to unlock the sash; Fig. 5, a detail of one of the detents; Fig. 6, a perspective detail of the springs to operate the detents; Fig. 7, an inside elevation of the key and key-plate, and Fig. 8 a detail of the key.

Like letters refer to like parts in all of the figures.

A represents the case of the lock, rectangular in form and adapted to be inserted in a mortise in the sash, as shown in Fig. 1.

B and C are two detents pivoted within the case and adapted to project therefrom to engage the casing of the window, as indicated in Fig. 1, and having corrugated or roughened surfaces B'' and C'' to effectually prevent slipping of the same on the window-casing. These detents are pivoted in the casing at B' and C' and turn outward at opposing angles, whereby one detent holds the sash from moving up and the other holds the sash from moving downward.

Springs are provided to turn the detents on the pivots and project them from the case. These springs are shown in detail in Fig. 6 and consist of portions M M of a suitable plate

N, partially detached and bent upward. Said plate consists of any suitable flexible material and conforms substantially to the dimensions of the inner side of the case back of the detents, so that it requires no other fastening to secure or retain it in place. The flexible arms M engage inwardly-projecting portions L of the detents B and C to turn the same on their pivots. To depress the springs and withdraw the detents within the case, a lever J is provided, which lever is pivoted near one end at J' and extended within a recess R in the side of the detent C and provided with a rack K, engaging the adjacent ends of the portions L of the detents. This rack is engaged and operated by a pinion H, journaled in the case and provided with a key-socket G, in which is inserted a suitable key P, provided with a lever D. Said key is detachably secured in place by means of a groove O in its shank, engaged by a spring I, secured to the key-plate or escutcheon E.

The rack K engages the projections L oppositely to the springs M, and when the pinion is turned by the key the rack will be moved and the springs and projections depressed, and the detents thus withdrawn within the case. When the key is released, the springs will turn the detents on their pivots and project them from the case and engage them with the window-casing, and thus lock the sash. The rack is also provided with a slot O, and a pin Q is fixed in the slot, whereby the movement of the rack is limited.

By removing the key the sash cannot be unlocked until the key is again inserted and turned to release the detents.

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

1. In a sash-lock, oppositely-acting detents, springs to engage the detents, a movable rack to release the detents, a pinion engaging the rack, and a key to turn the pinion.

2. In a sash-lock, a case, opposing detents pivoted in the case and projecting therefrom, and also having adjacent projections, springs engaging the projections at one side, a movable rack engaging the projections at the other

side, a pinion journaled in the case and engaging the rack, and a key to operate the pinion.

3. In a sash-lock, a case, opposing detents pivoted in the case and projecting therefrom
5 at one end and having adjacent projections at the other end, a pivoted lever, a rack on the lever and engaging the projections on the detents, a pinion journaled in the case and engaging the rack and also having a key-socket,
10 a detachable key, and springs engaging the projections on the detents.

4. In a sash-lock, a case, opposing detents projecting from the case at one end and pivoted within the case at the other end, and also
15 having adjacent projections, one of said detents also having a recess, a lever pivoted in the case and extending through the recess, a rack on the movable end of the lever and engaging the projections on the detents, springs
20 engaging the said projections, a pinion journaled in the case and engaging the rack and

also having a key-socket, and a key for the pinion.

5. In a sash-lock, the combination of a case, detents pivoted in the case and having projec- 25 tions, a plate of flexible material of substantially the dimensions of one side of the interior of the case, and having partially-divided portions forming springs to engage the pro- 30 jections on the detents.

6. In a sash-lock, in combination with means for operating the detents and having a key-socket, a key to fit the socket and having a groove in its shank, and a spring yieldingly engaging the groove to detachably hold the 35 key in place.

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

JOHN R. CRONIN.

Witnesses:

EDWARD R. MONROE,
LUTHER V. MOULTON.