

No. 684,018.

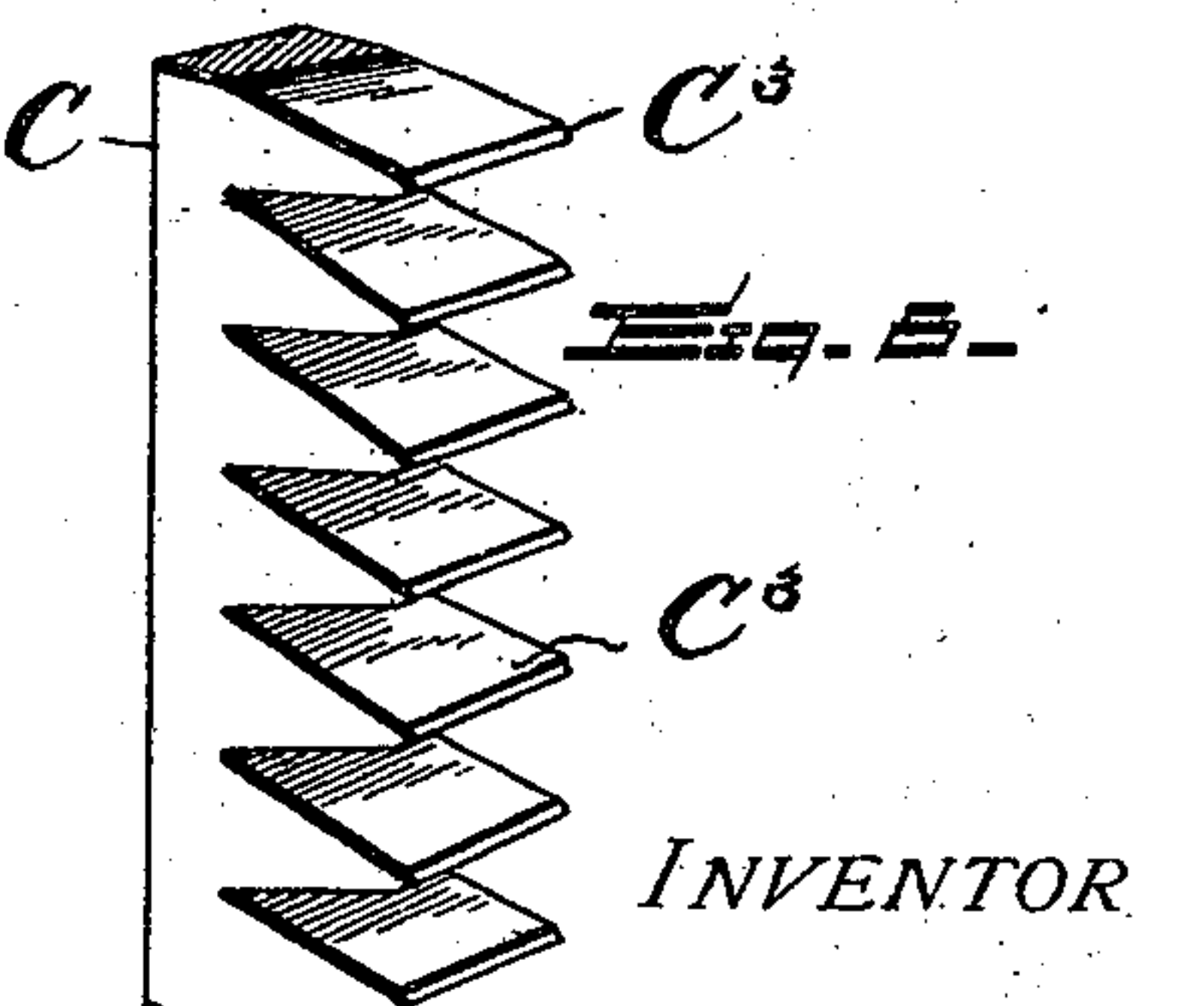
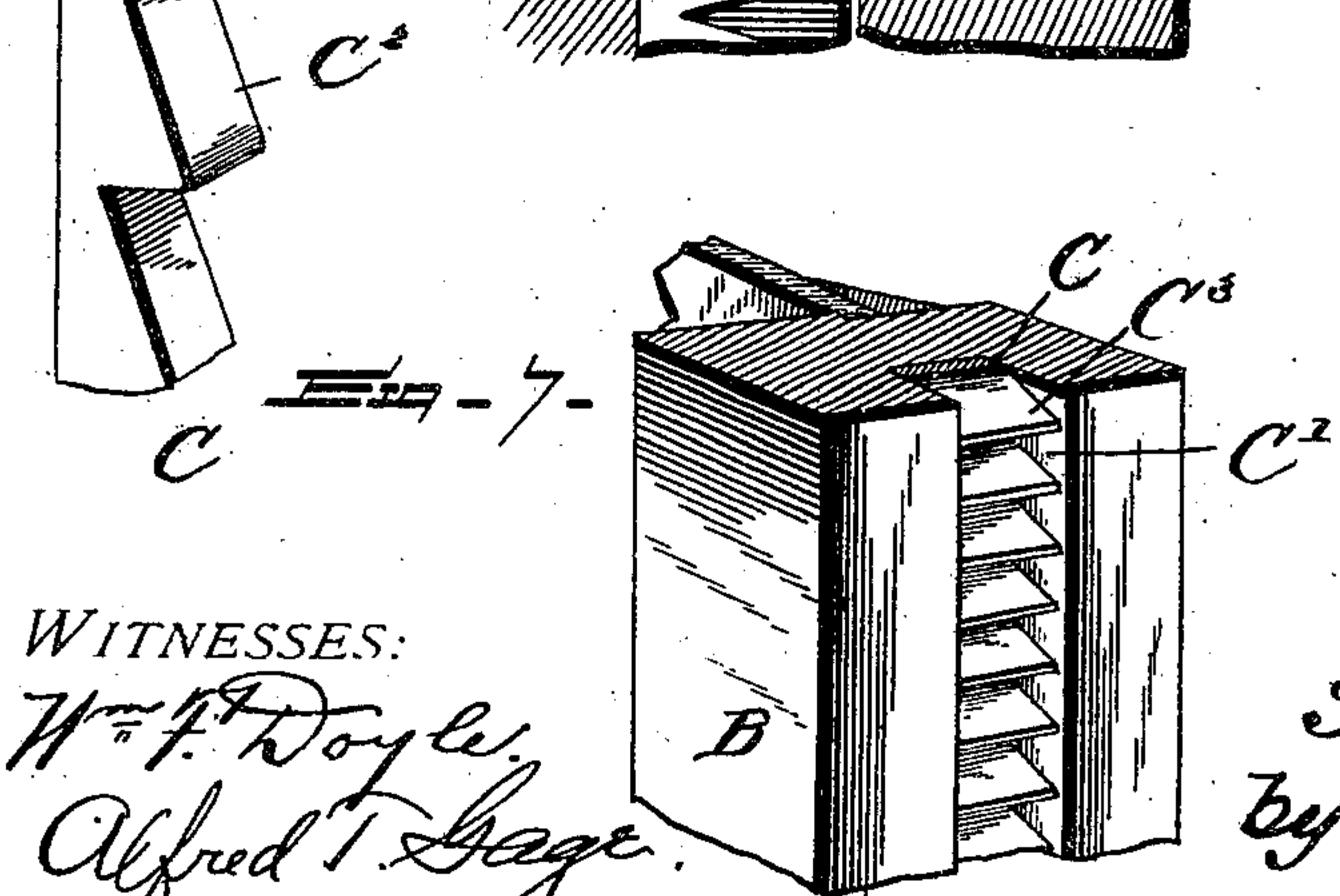
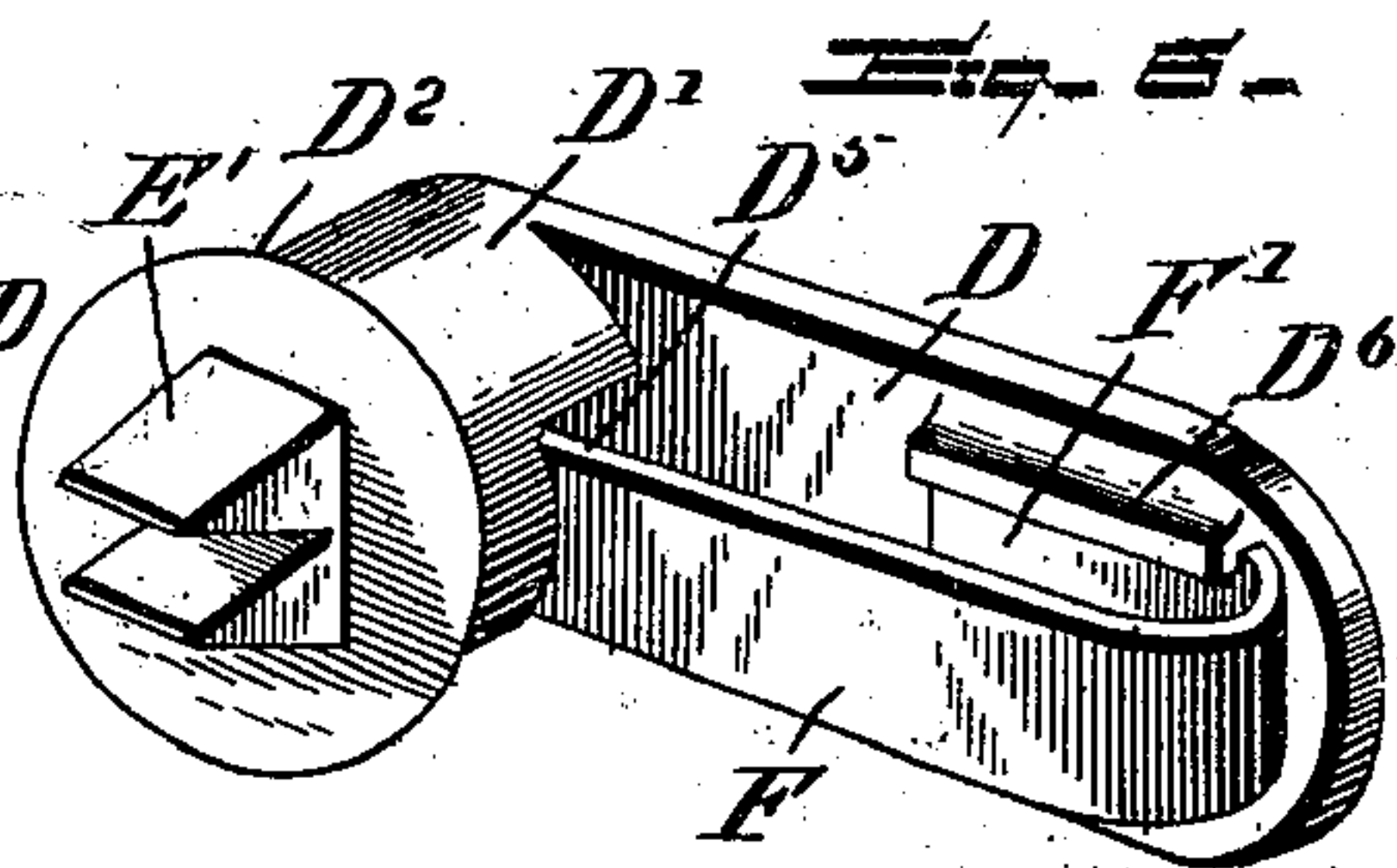
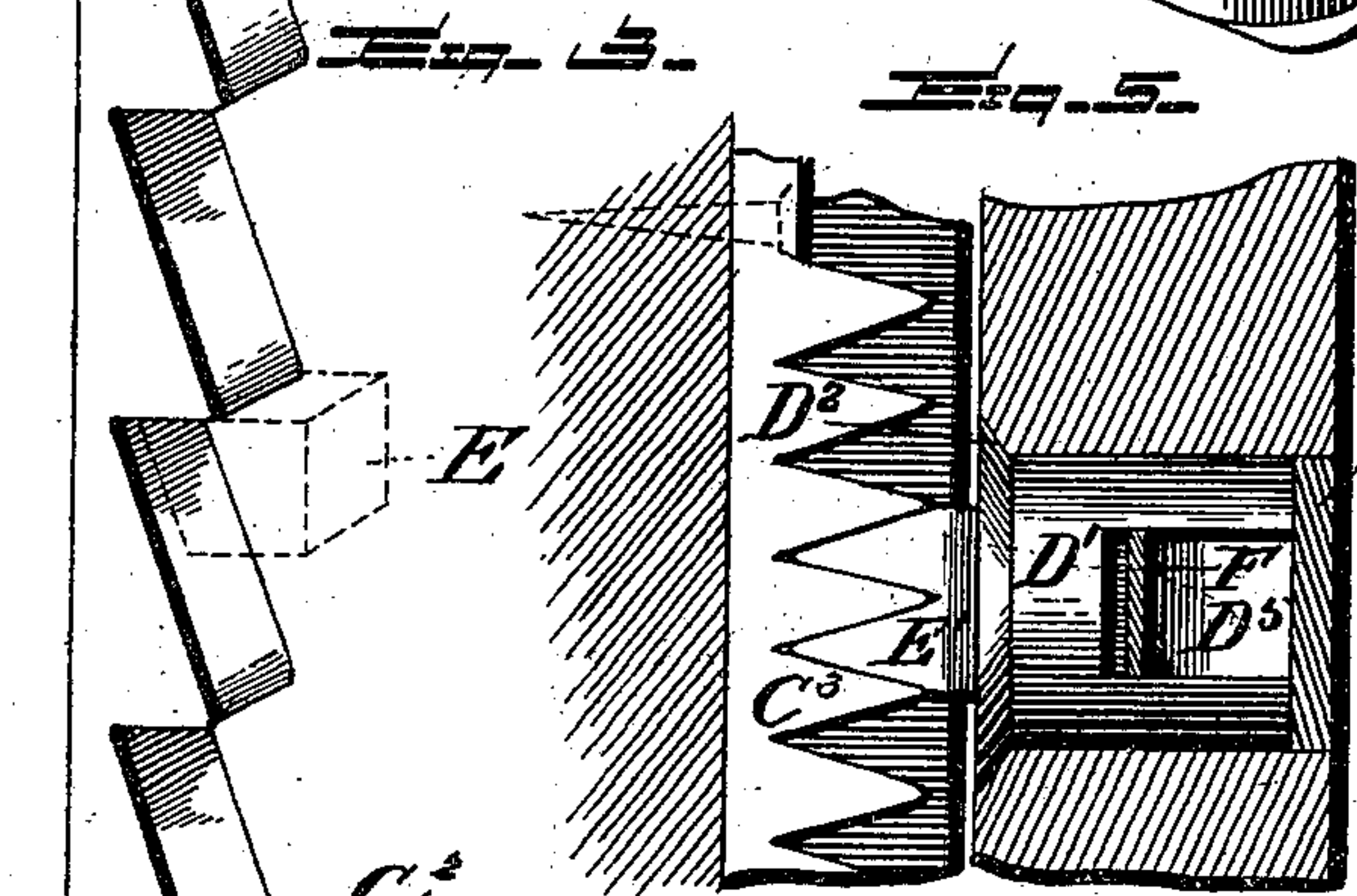
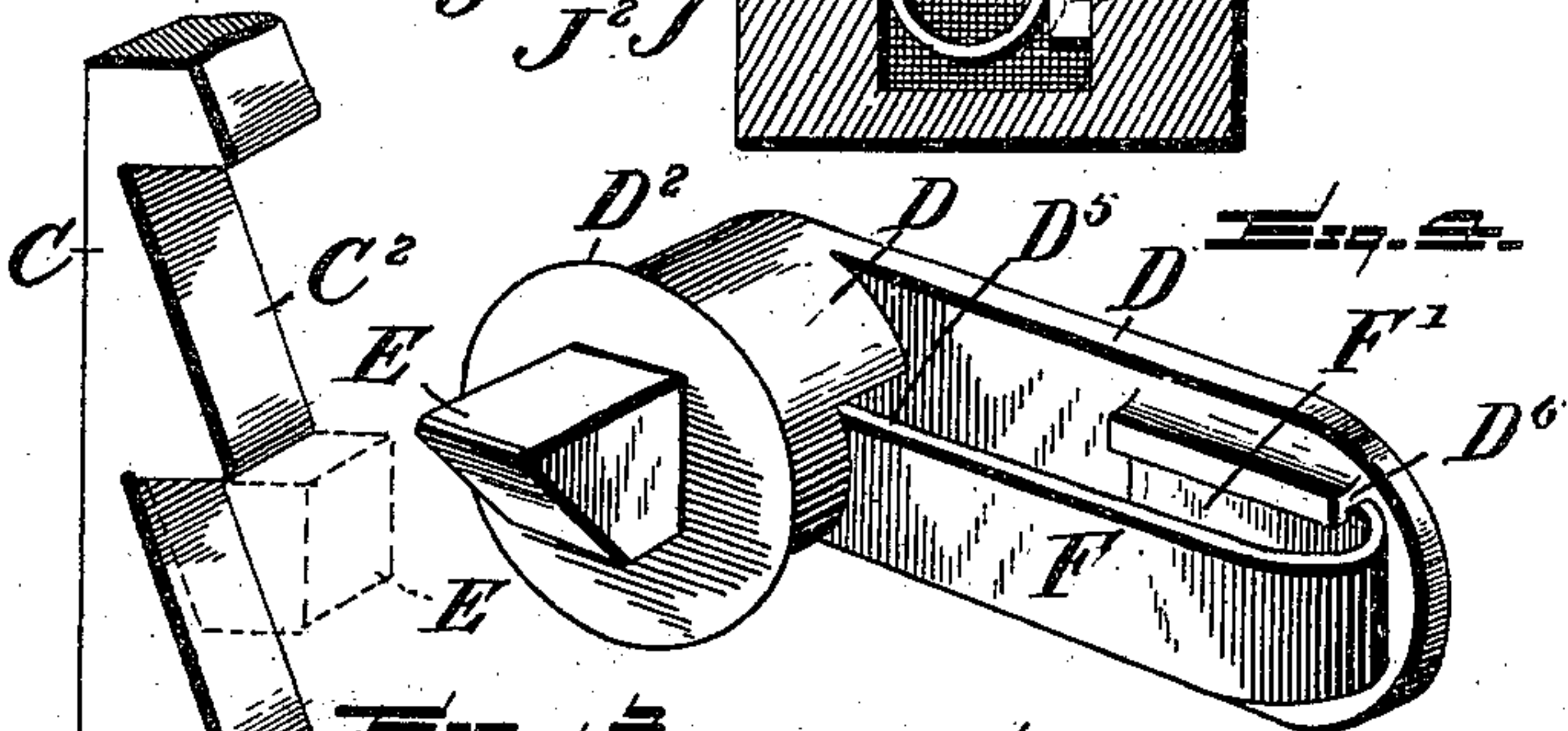
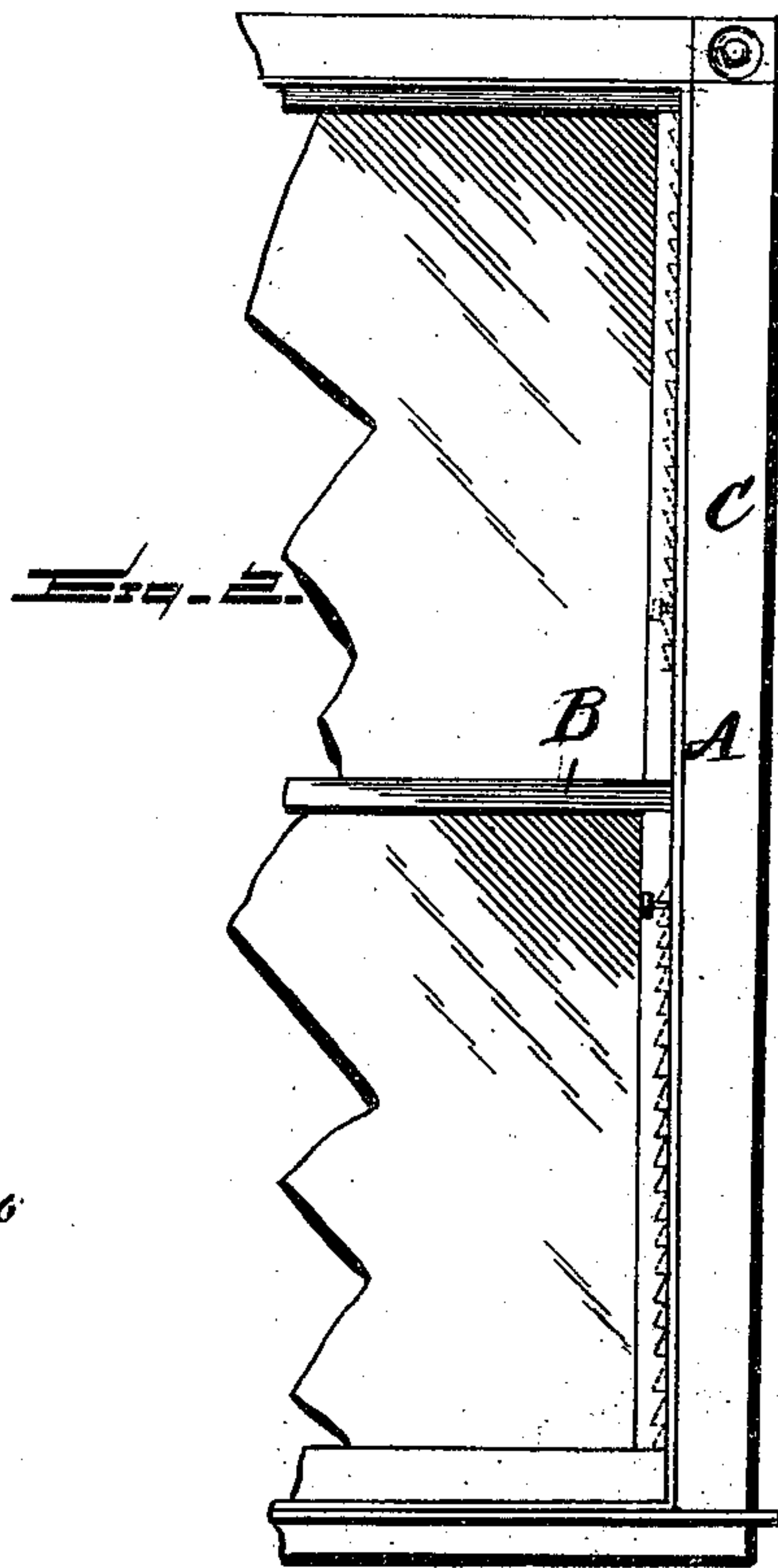
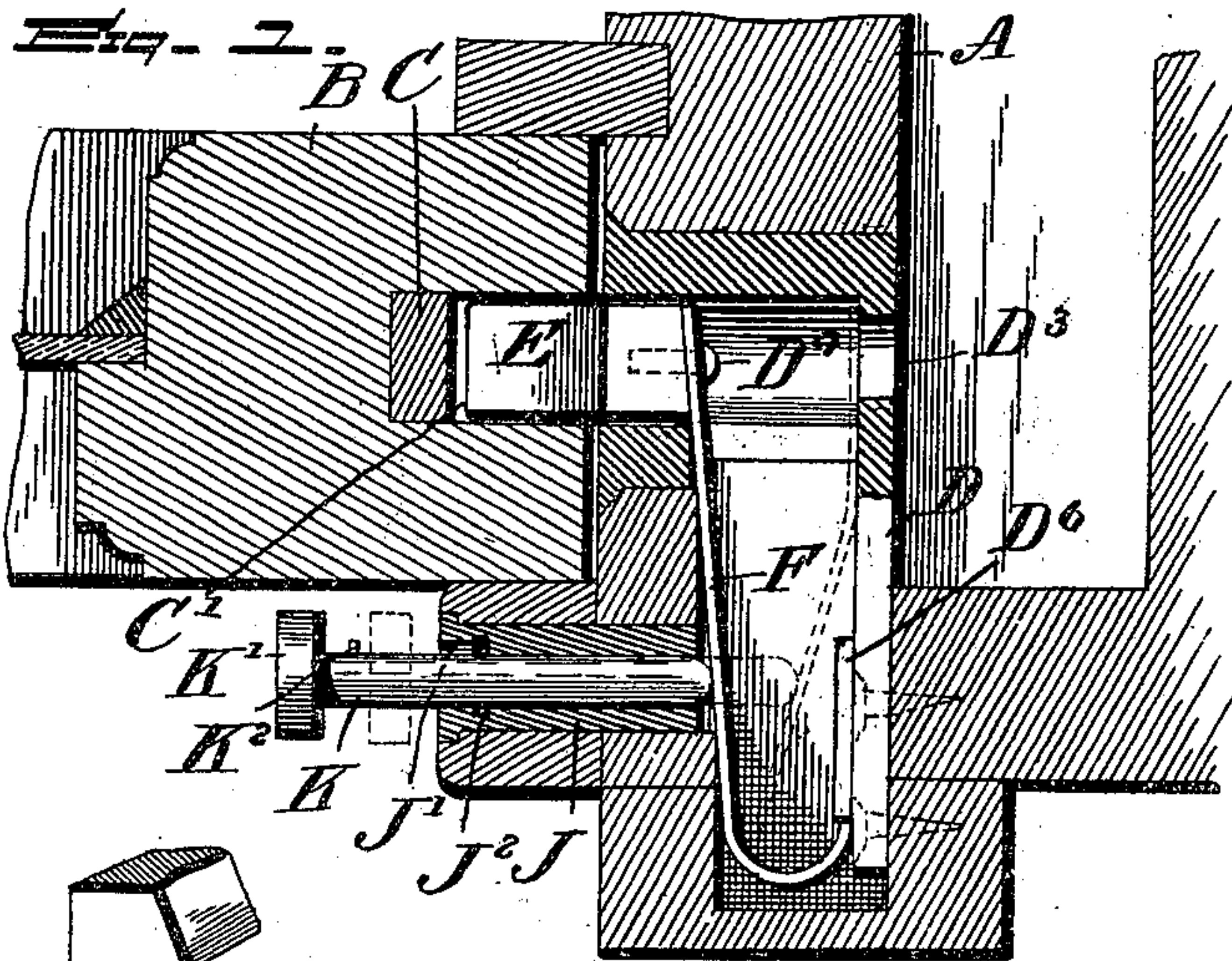
Patented Oct. 8, 1901.

S. G. WELLMAN.

SASH LOCK.

(Application filed Jan. 9, 1901.)

(No Model.)



WITNESSES:
Wm. F. Doyle.
Alfred T. Sage.

INVENTOR
Samuel G. Wellman,
by E. B. Stocking
Attorney

UNITED STATES PATENT OFFICE.

SAMUEL G. WELLMAN, OF CORRY, PENNSYLVANIA.

SASH-LOCK.

SPECIFICATION forming part of Letters Patent No. 684,018, dated October 8, 1901.

Application filed January 9, 1901. Serial No. 42,665. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL G. WELLMAN, a citizen of the United States, residing at Corry, in the county of Erie, State of Pennsylvania, have invented certain new and useful Improvements in Sash-Locks, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in sash-locks or fasteners of that class in which a locking-dog is completely concealed from view and is actuated by a spring to force the same into engagement with the rack or the like upon the window-frame and moved away from the rack to allow the movement of the window by any suitable device.

The present invention has for its object, among others, to provide a simple and cheap fastener of this character composed of few parts, which can be readily applied in an invisible position, thus permitting the opening of the window to any desired degree and insuring perfect safety against tampering with the locking-dog.

Another object of the invention is to provide an improved construction of supporting-plate having means thereon for securing the spring in position and guiding the locking-dog in its movement, which construction permits a rapid and easy assembling of the several parts and their renewal when desirable.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a horizontal section of an application of the invention. Fig. 2 is an elevation of a window sash and frame. Fig. 3 is a perspective of the rack used upon the upper sash. Fig. 4 is an enlarged detail perspective of the spring and its dog and the supporting-plate and guide detached. Fig. 5 is a vertical section showing a modified form of rack and a toothed dog. Fig. 6 is a detailed perspective of the toothed dog, spring, and supporting-plate. Fig. 7 is a sectional perspective showing the modified form of rack applied to a sash, and Fig. 8 is a detail perspective of the rack having V-shaped teeth.

Like letters of reference indicate like parts throughout the several views.

Referring now to the details of the drawings by letter, A designates a window-frame, and B the sash, of usual construction, except as hereinafter specified.

Within a suitable recess or socket in the frame A a supporting-plate D is located. This plate is provided at one end with a guide-sleeve D', adapted to receive the locking-dog E. The opposite end of the plate is provided with any suitable means for securing one end of a spring F—for instance, flanged lugs D⁶, forming a socket to receive the end of a flat spring. The outer end of the sleeve D' is provided with a beveled flange D² to seat against and within the face of the window-frame. At the rear of this sleeve an aperture D³ is formed in the plate D to permit the introduction of a tool for securing the dog E to the end of the spring. This securing may be by any preferred means—for instance, a rivet D⁴—and if so desired the dog may be reversibly secured to the spring, so that it can be reversed for use upon either an upper or lower sash. This reversing can be effected by simply turning the dog upon the spring and introducing it into the guide-sleeve in its reversed position. One wall of the guide-sleeve is suitably slotted, as shown at D⁵, to permit the necessary movement of the spring F.

The spring F is provided with an inwardly-bent end F' to engage the lugs D⁶ on the plate D. The locking-dog E, secured at the free end of the spring, may be provided with an inclined and straight face, as shown in Fig. 4, to cooperate with a similar rack, as shown in Fig. 3. This structure of rack and dog permits the sash to be moved in one direction to close the same while resisting all movement in an opening direction. If it be desired to hold the sash against movement in either direction, the rack shown in Fig. 8 may be used in connection with the toothed dog E', (shown in Fig. 6,) whereby the V-shaped rack and dog interlock to prevent any movement whatever in either direction.

In the operation of the lock it will be seen that the dog is also in position to automatically and positively secure the sash, but may

be immediately released by the push-bolt, so as to permit the ready adjustment of the sash to any desired position. Furthermore, the sash can be partially raised or lowered
5 and then locked in position as securely as if completely closed. When the push-bolt is removed, the parts of the lock are completely concealed, and thus rendered secure against tampering. The simple structure used, consisting of only three parts, permits the economical
10 manufacture of the lock and avoids all complicated parts or devices which are liable to become disarranged and injured in the movement of the sash. By retracting the dog the
15 sash can be raised, and when the dog is released will be secured in the position desired, thereby providing for ventilation of an apartment while affording perfect safety against any movement of the sash by unauthorized
20 persons.

It will be obvious that changes may be

made in the details of construction and configuration of the device without departing from the spirit of the invention as defined by the appended claim. 25

What I claim is—

A sash-lock comprising a supporting-plate having at one end opposite flanges forming a seat, a flat spring bent upon itself and having its bent end inserted between said flanges, 30 a locking-dog carried by the free end of said spring, and a guide-sleeve for said dog extending from the face of said plate at one end thereof and provided with a slot in alignment with the said spring and the securing- 35 flanges therefor; substantially as specified.

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

SAMUEL G. WELLMAN.

Witnesses:

ALFRED T. GAGE,
E. J. BEVERSTOCK.