

No. 713,857.

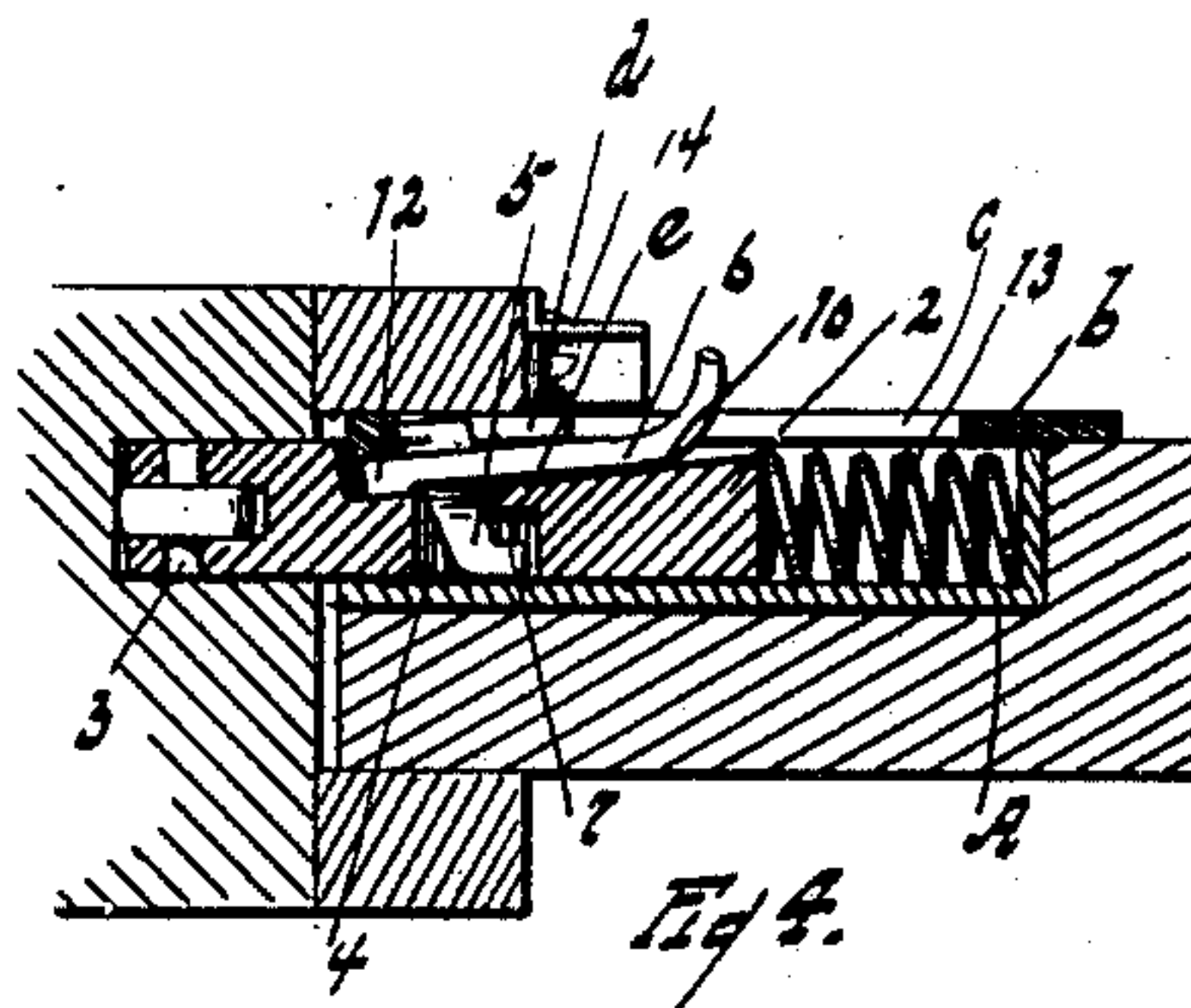
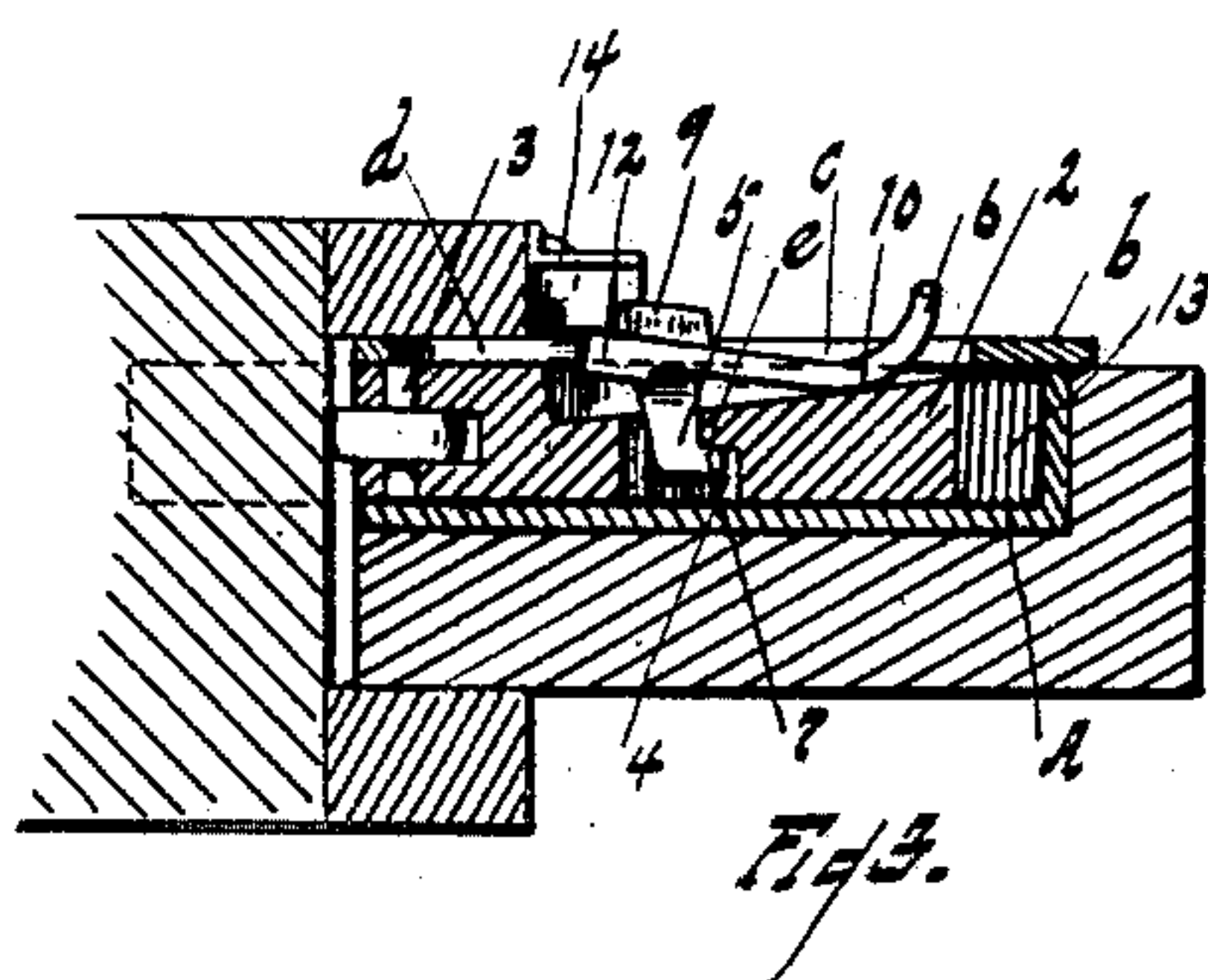
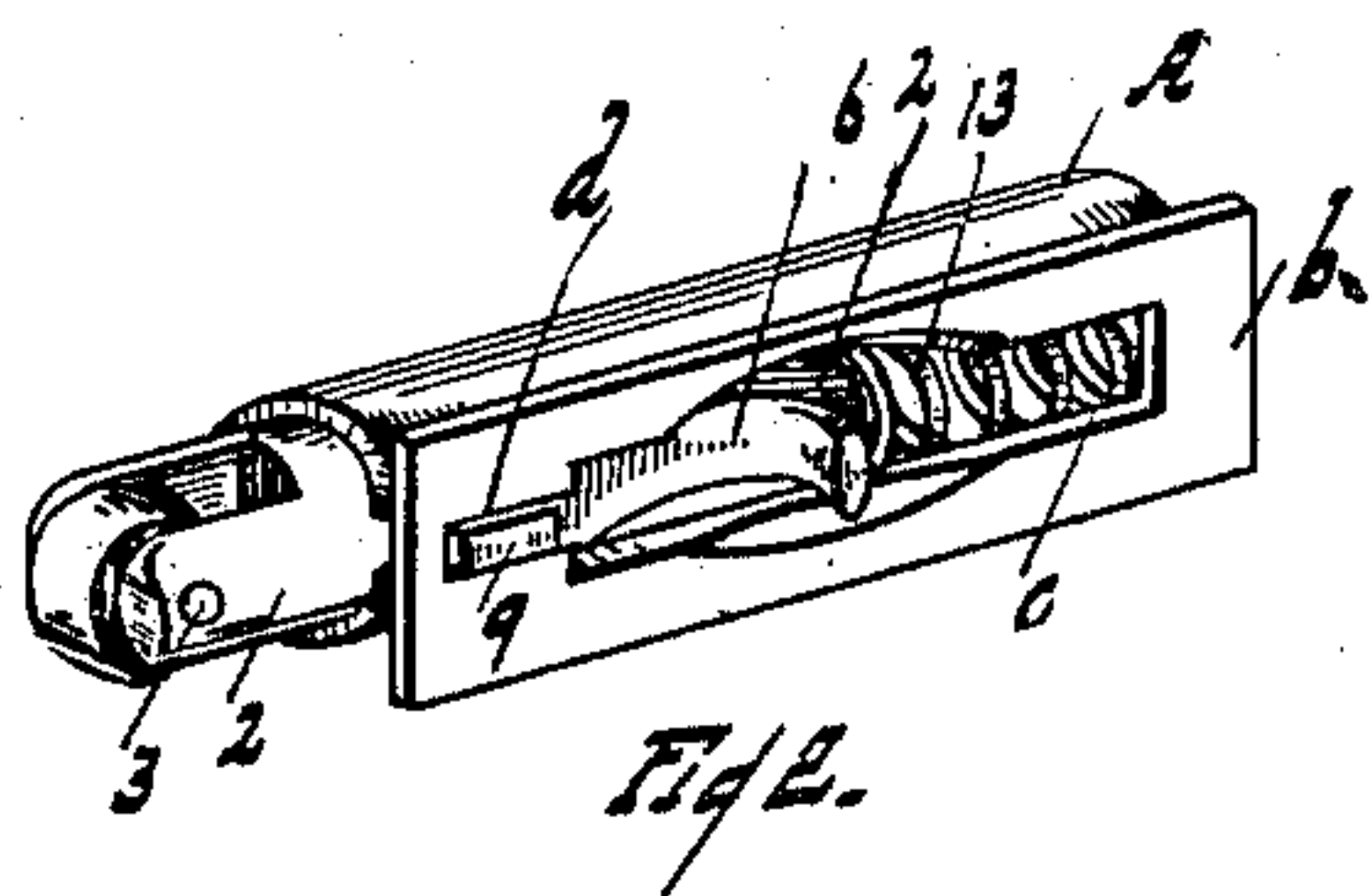
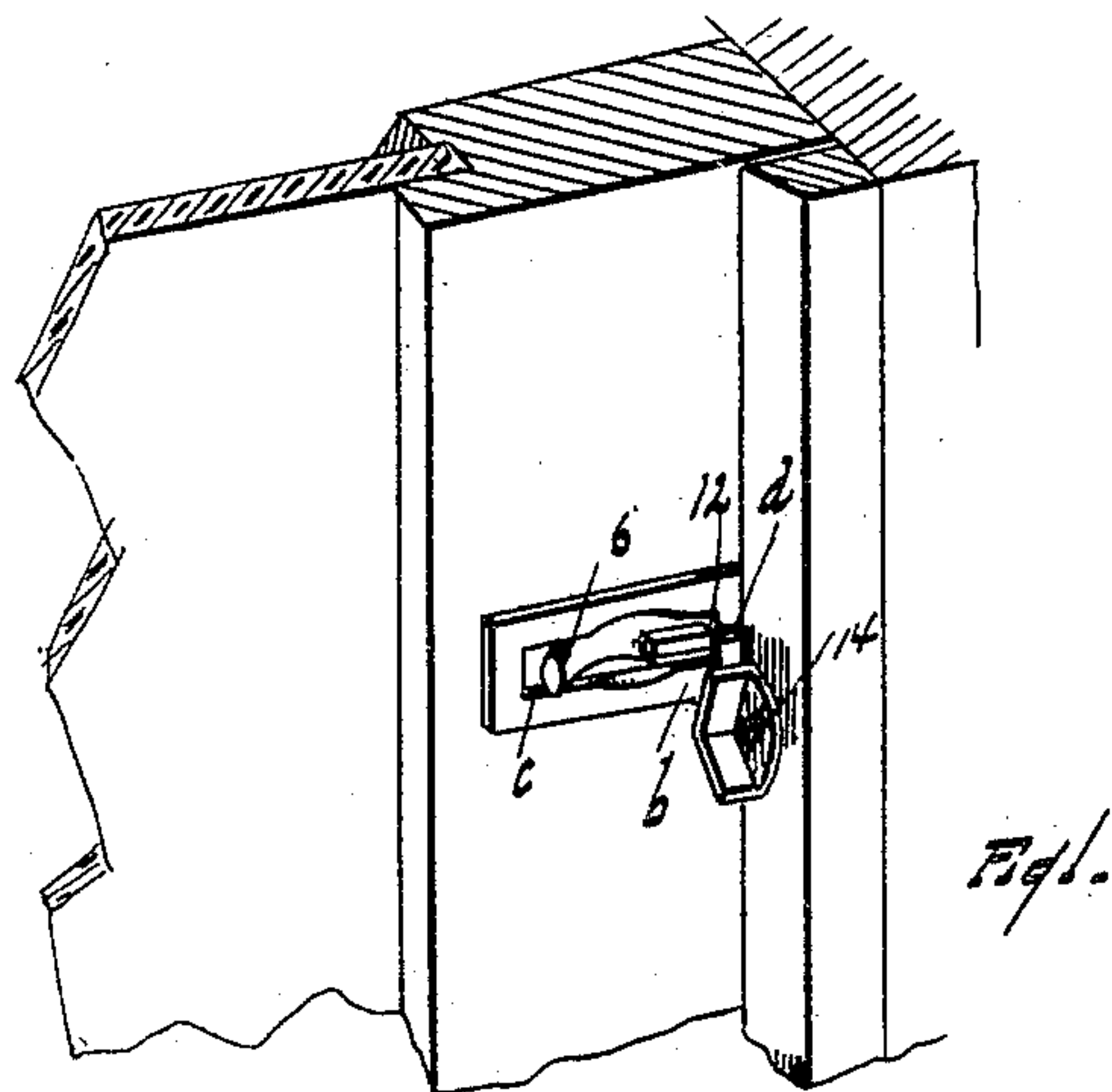
Patented Nov. 18, 1902.

E. M. COMSTOCK.

SASH FASTENER.

(Application filed May 17, 1902.)

(No Model.)



WITNESSES

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UNITED STATES PATENT OFFICE.

EDGAR M. COMSTOCK, OF YPSILANTI, MICHIGAN.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 713,857, dated November 18, 1902.

Application filed May 17, 1902. Serial No. 107,715. (No model.)

To all whom it may concern:

Be it known that I, EDGAR M. COMSTOCK, a citizen of the United States, residing at Ypsilanti, county of Washtenaw, State of Michigan, have invented a certain new and useful Improvement in Sash-Fasteners; and I 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 pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to sash-fasteners, and has for its object an improved sliding bolt-fastener adapted to be used with the side rail of a window-sash, the fastener being provided with a bolt which is arranged to be projected from the sash into a cavity in the window-frame. Provision is made to retract the bolt and hold it retracted at certain times, but to have it automatically projected or shot whenever the window-sash is either raised from its lowermost position or lowered from an elevated position to its lowermost position unless attention is given to the retracting mechanism and the retracting mechanism is intentionally and manually set to hold the bolt retracted.

In the drawings, Figure 1 shows the fastener in position on the sash. Fig. 2 is a perspective showing the fastener detached from the sash. Fig. 3 is a longitudinal horizontal section of the fastener, showing the bolt retracted. Fig. 4 is a longitudinal horizontal section of the fastener, showing the bolt shot.

The word "horizontal" is used here with reference to the position of the bolt in use on the sash.

A indicates the bolt-case, which is tubular, with a flat face-plate *b*. Through the face-plate *b* is a rectangular slot *c*, in front of which is an extension-slot *d*, also rectangular, but considerably narrower than the slot *c*.

2 indicates the bolt, forked at its protruding end and provided with a friction-wheel held on a pin 3, that is journaled in the branches of the fork. That part of the bolt-stem which is contained within the casing A is at its front end round in cross-section and farther back is slabbed off, making a notch which at the front end is deep and flat-bottomed, but which vanishes toward the extreme rear end, making

a cavity in the bolt on that face of the bolt which lies toward the slot *c* and triangular on its longitudinal section. Behind this cavity 55 in the body of the bolt is a second cavity 4, (which may be a perforation,) which lengthens at the rear, leaving a septum *e*, behind which engages a spur 5 from a curved thumb-piece 6. The spur 5 is provided with a hook part 7, that 6c engages behind a septum of the cavity 4. Opposite the spur and in position to project above the bolt is a second spur 9, that can be lifted above the plate *b* of the casing, but normally rests in the triangular cavity spoken 65 of and beneath the surface of the casing *b*. The thumb-piece 6 is curved, and the swell 10 of the curve rests on the flat face of the triangular cavity. The thumb-piece 6 is prevented from escaping entirely from its en- 70 gagement with the bolt 2 by the interlocking engagement of the hook 7 with the shoulder part *e* of the bolt. The front end of the thumb-piece 6 may be lifted by depressing the rear end until the front end 12 en- 75 gages with the face-plate *b*, and this engagement can only be brought about when the bolt is retracted and not when in engagement. The thumb-piece 6 holds the bolt in its retracted position against the tension of the 80 spring 13. When in this position, the spur 9 projects from the face *b* in a position to engage with a fixture 14 on the frame. The fixture 14 is provided with an angled plate that forms with the vertical part of the window- 85 sash a V-shaped cavity on its upper side and a similar V-shaped cavity on its lower side, and the spur 9, traveling with the sash as it is raised or lowered and as the spur approaches that part of the fixture 14 which is nearest to 90 the sash, is gradually forced inward until the end 12 drops behind the plate *b* and releases the bolt, which is immediately pushed forward by the spring 13 and will therefore engage in any cavity in the frame with which it 95 may come into register. A window-sash equipped with this bolt will always be in condition to automatically engage and lock the sash; but the bolt may, whenever desired, be retracted and held in its retracted position in 100 the way described.

What I claim is—

1. In a sash-bolt, in combination with a bolt provided with a cavity at one side thereof,

and with a holding-shoulder in a cavity extending from said first-mentioned cavity, a curved thumb-piece provided with a hooked spur adapted to engage under said shoulder, 5 and with a spur opposite thereto arranged to project beyond the casing, the said thumb-piece being arranged to rock from a position below said casing to a position in which the forward end thereof engages the casing, and 10 a spring arranged to hold the parts in said second position, substantially as described.

2. In a sash-fastener, the combination of a bolt upon the sash and means for projecting it toward the frame, a catch arranged to move 15 approximately vertically to the plane of the sash to hold the bolt in a retracted position, and a lug secured to the frame and provided with a surface inclined to the line of motion

of the sash adapted to contact said catch, substantially as and for the purpose set forth. 20

3. In a sash-fastener, the combination of a bolt upon the sash and means for projecting it toward the frame, a catch arranged to move approximately vertically to the plane of the sash to hold the bolt in a retracted position, 25 and a lug secured to the frame and provided with a surface having a double inclination to the line of motion of the sash adapted to contact said catch, substantially as and for the purpose set forth. 30

In testimony whereof I sign this specification in the presence of two witnesses.

EDGAR M. COMSTOCK.

Witnesses:

DARWIN C. GRIFFEN,
J. M. CHIDESTER.