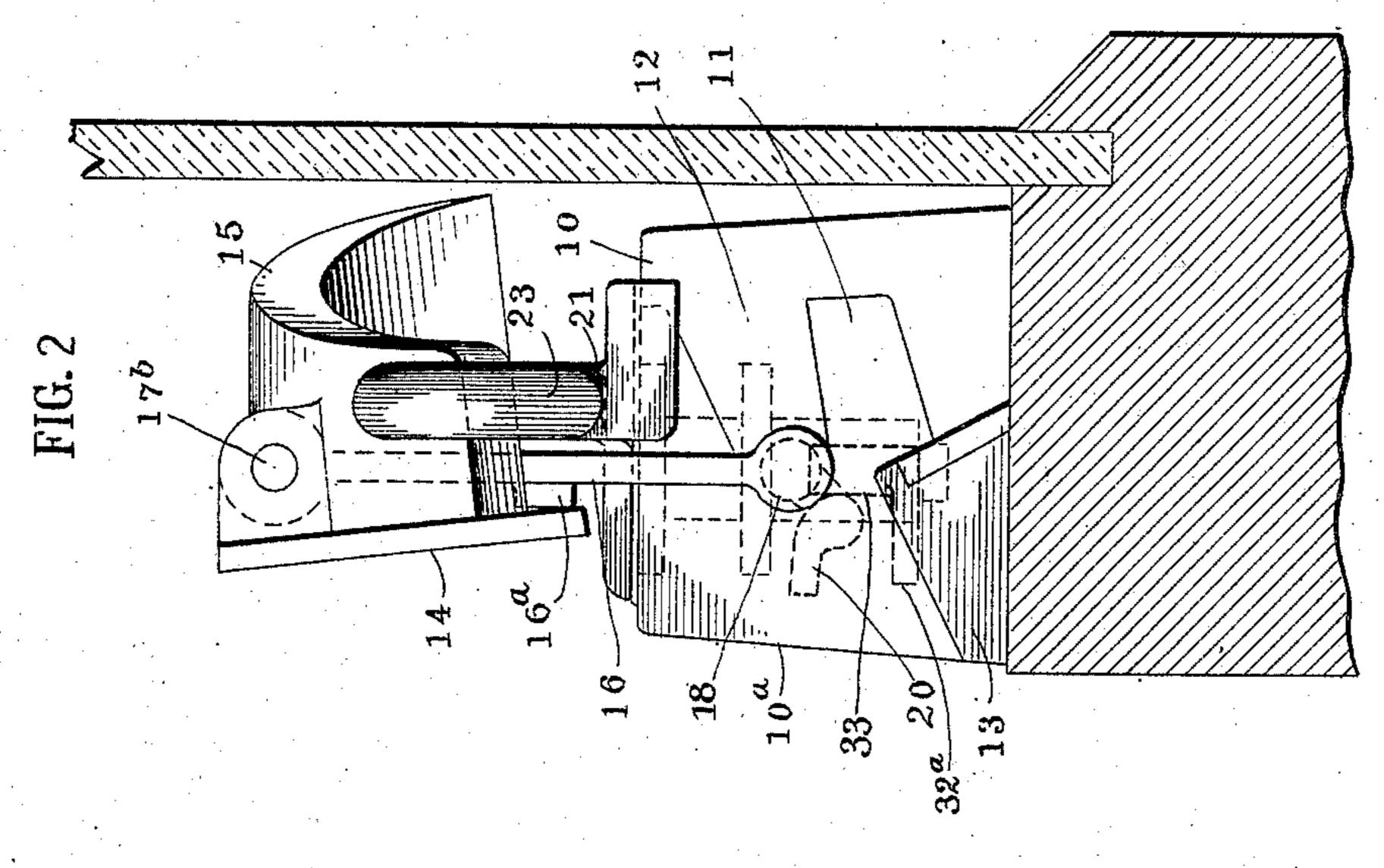
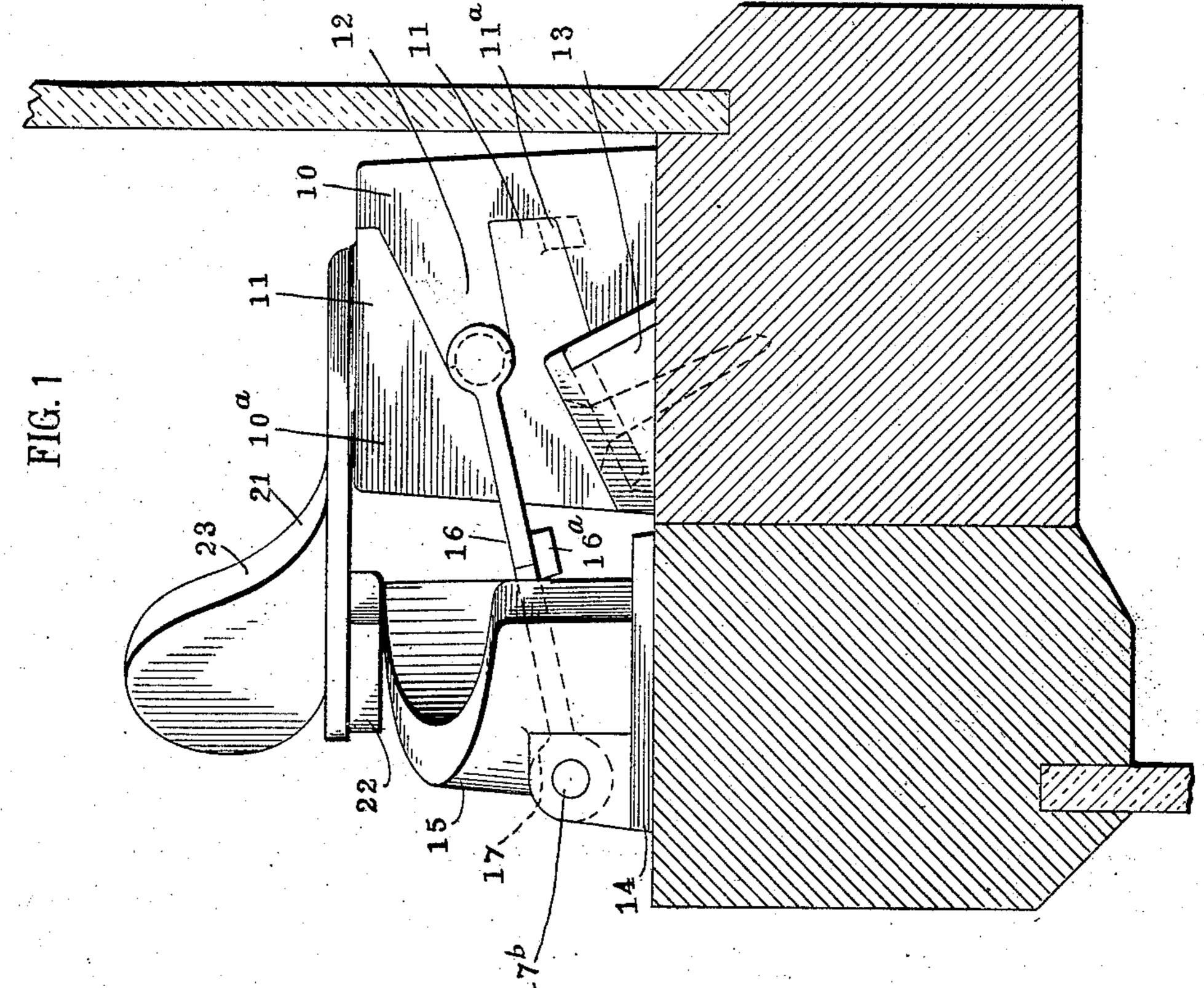
## W. SCHUCH. SASH LOCK.

APPLICATION FILED AUG. 22, 1906.

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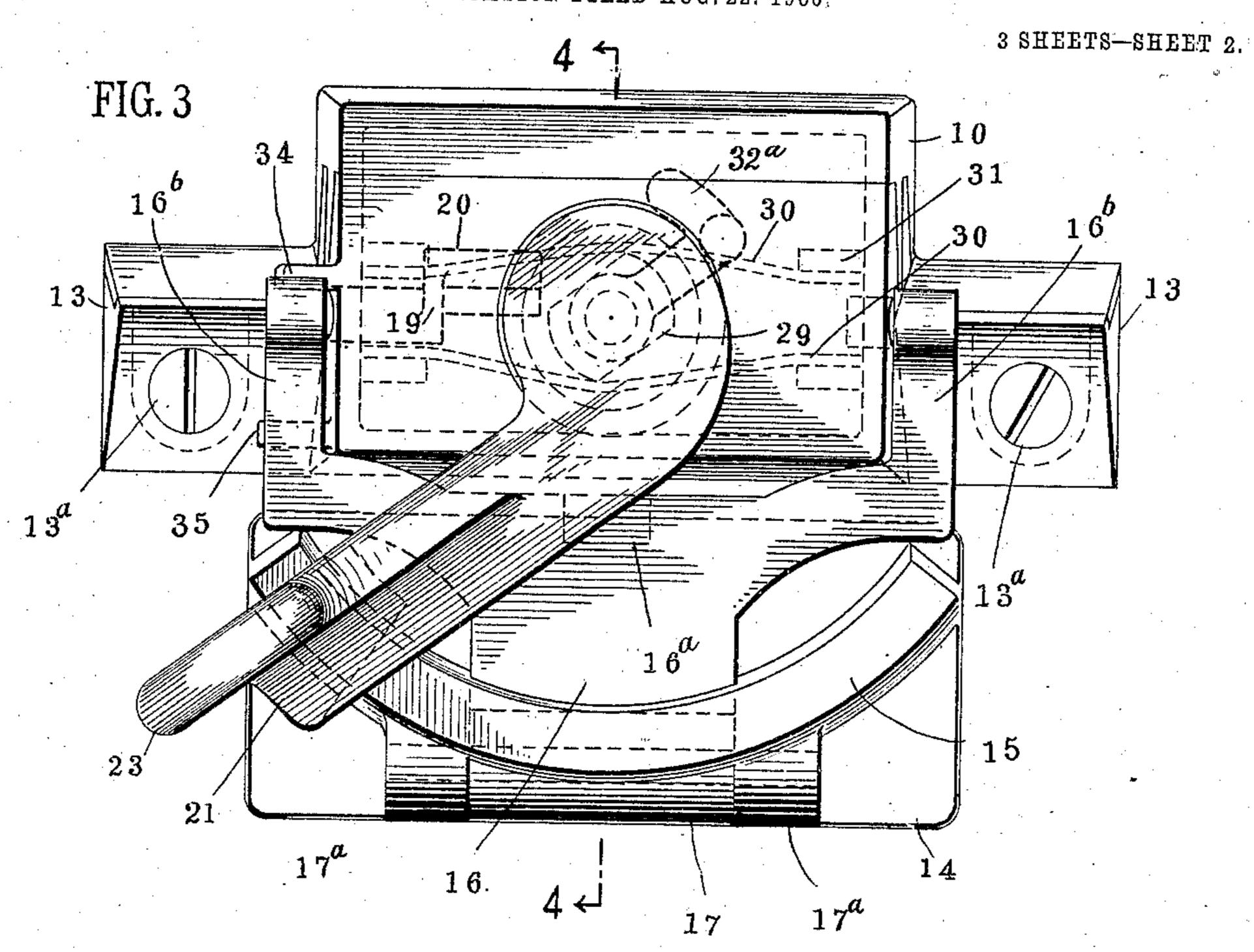
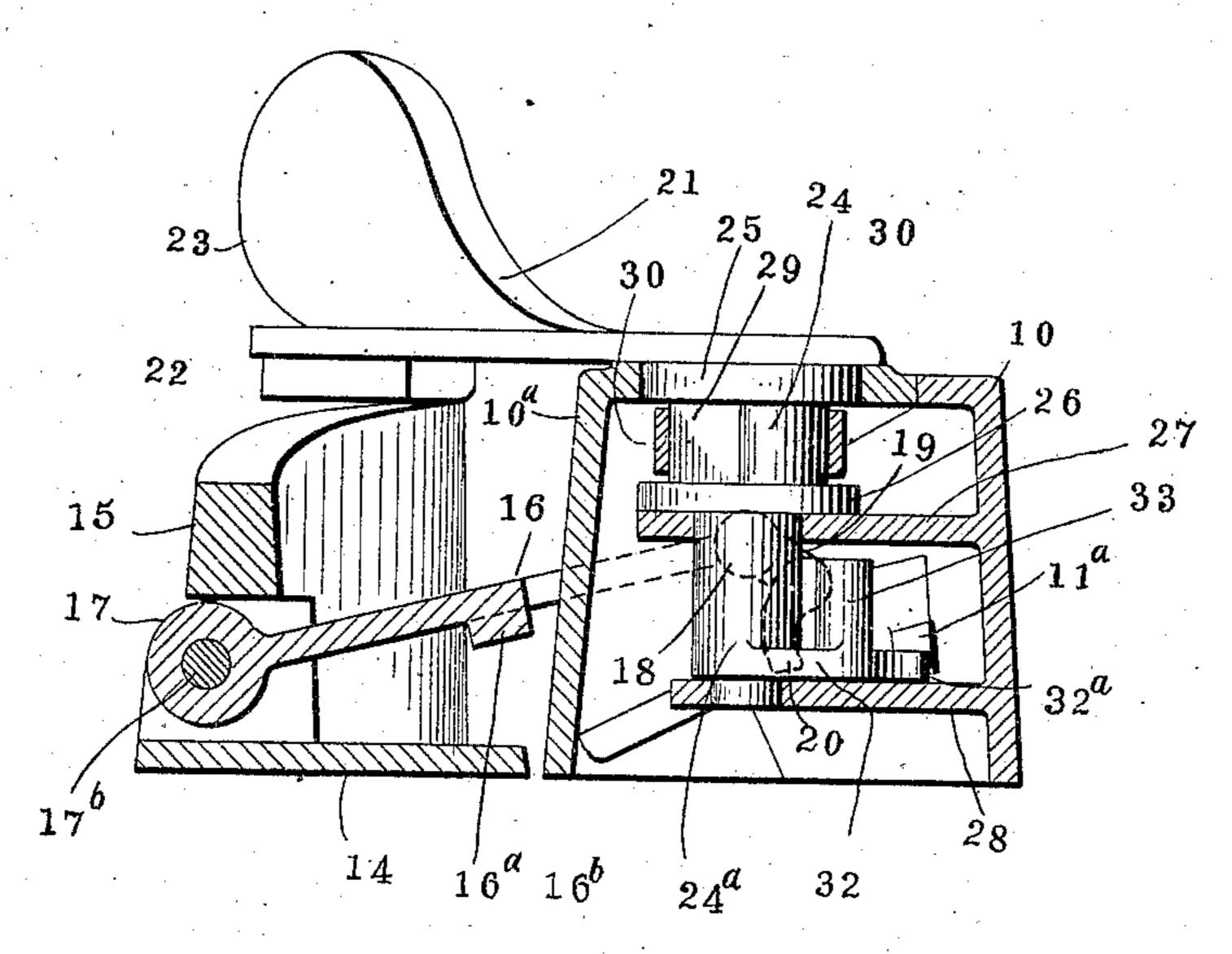


FIG A

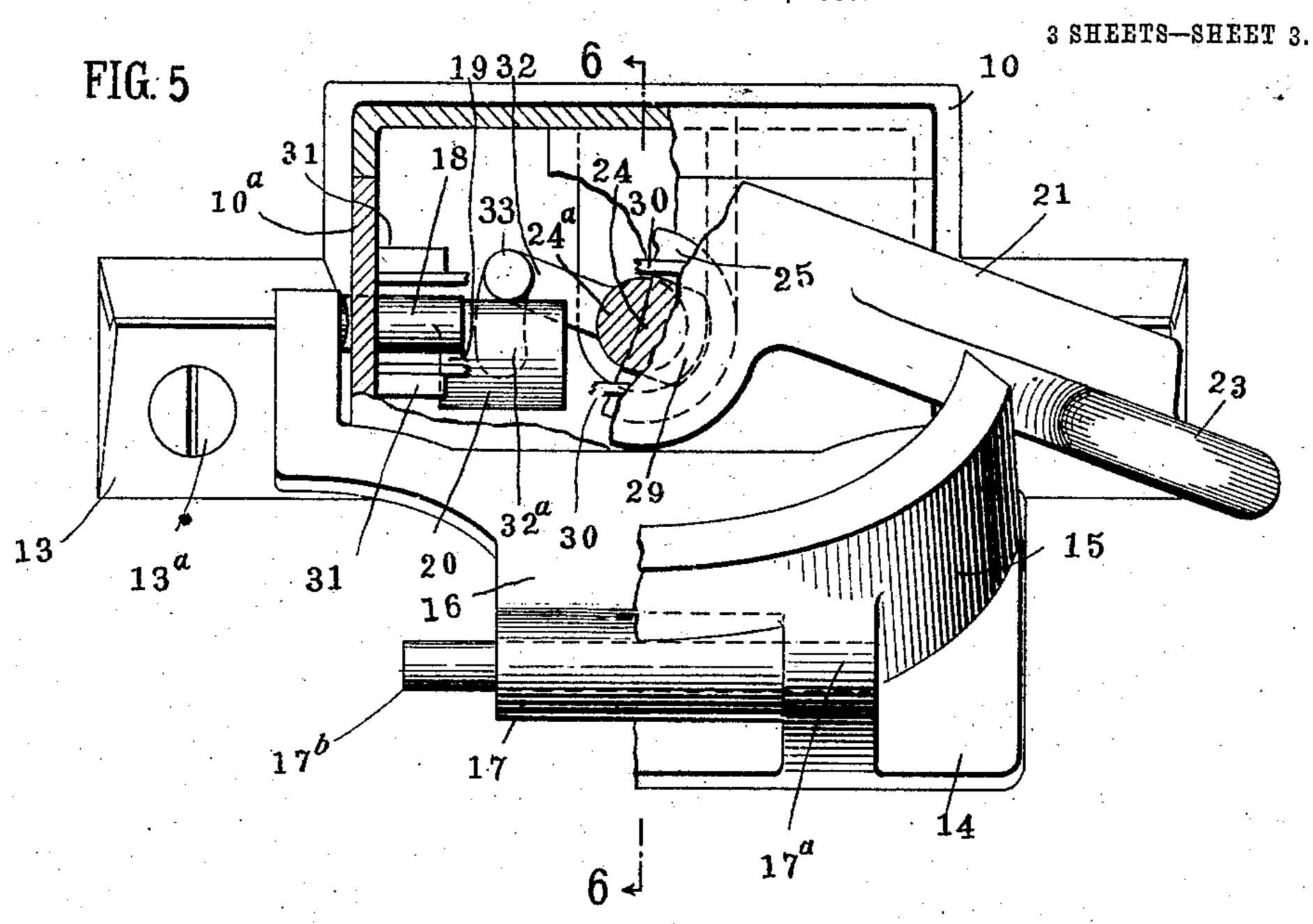


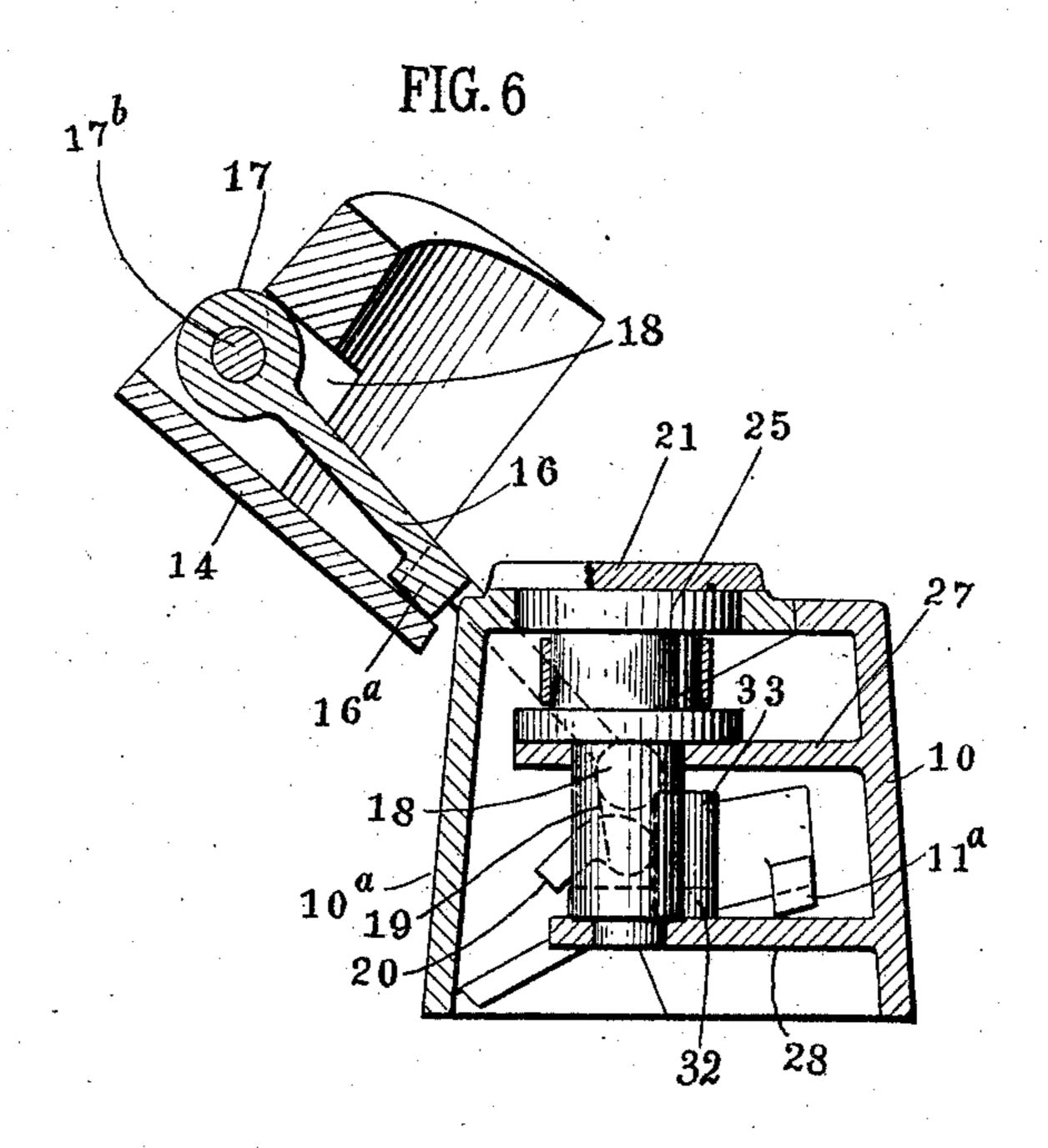
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## UNITED STATES PATENT OFFICE.

WILLIAM SCHUCH, OF WEST HOBOKEN, NEW JERSEY, ASSIGNOR OF ONE-HALF TO GEORGE H. HYDE, OF NEW YORK, N. Y.

## SASH-LOCK.

No. 850,495.

Specification of Letters Patent.

Patented April 16, 1907.

Application filed August 22, 1906. Serial No. 331,560.

To all whom it may concern:

Be it known that I, WILLIAM SCHUCH, of West Hoboken, county of Hudson, State of New Jersey, have invented a new and Im-5 proved Sash-Lock, of which the following is

a full, clear, and exact description.

My invention relates to improvements in sash-locks, such as are used to fasten window-sashes; and the object of my invention 10 is to produce a lock of this character which is particularly efficient and easily operated and which is constructed in such a way that one member is applied to one of the sash-rails, while the other when not in use swings up-15 ward entirely free of the opposite sash-rail, but when in use presses firmly downward upon the opposite sash, thus securely locking it.

To this end my invention consists of cer-20 tain features of construction and combinations of parts, which will be hereinafter de-

scribed and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specifica-25 tion, in which similar letters and figures of reference indicate corresponding parts in all the views.

Figure 1 is an end elevation of the sashlock, showing the parts in locked position 30 and applied to the meeting-rails of two sashes. Fig. 2 is an end view of the sashlock with the foot-piece turned up into unlocked position. Fig. 3 is a plan view of the invention. Fig. 4 is a cross-section on the 35 line 4 4 of Fig. 3 with the parts in locked position. Fig. 5 is a broken plan view with parts removed and with parts in section, showing the sash-lock unfastened and partially open; and Fig. 6 is a cross-section on 40 the line 6 6 of Fig. 5.

The sash-lock is provided with two principal members, one of which is adapted to be secured to the outer sash-rail, and this comprises a two-part box or casing 10 10a, the 45 parts having interlocking fingers 11 and 12 at the ends and having also projecting end lugs 13, which are likewise in two parts, as shown, and which are inclined on top to receive fastening-screws 13a. The object of making 50 the casing in two parts is to provide for easily assembling the structure and getting the working parts in proper place.

10<sup>a</sup>, they have on the inner side overlapping

lugs 11<sup>a</sup>.

The second member comprises a flat plate or foot-piece 14, which is adapted to fit snugly upon the top of the second sash-rail, as shown in Fig. 1, and this foot-piece carries an inclined and elevated rail or track 15, 60 which forms a cam-track and enables the foot-piece to be snugly pressed upon its sashrail. The foot-piece 14, forming the second member, is connected to the first member or casing by a swinging arm 16, which has a 65 stop 16a on the under side to prevent the footpiece from swinging too far and striking the glass, as shown clearly in Fig. 2. This swinging arm 16 has one end formed into a knuckle 17, which projects through a cut-away part 70 of the track 15, and is pivoted between the ears 17<sup>a</sup> on the foot-piece 14 by a pin 17<sup>b</sup>. (See Figs. 1 and 4.) The opposite end of the swinging arm 16 is forked, as shown at 16b, and the members are fast to the trunnions 75 18, which are pivoted in the ends of the box or casing 10 10a. The trunnions 18 have each depending cranks 19, which have curved extensions 20, and the object of this peculiar form of crank comprising the parts 19 and 20 80 (shown in Fig. 4) is to engage certain other parts operated by the finger-lever 21, so that the foot-piece 14 may be operated, all of which will be described below.

The finger-lever 21 is journaled so as to 85 swing on the top of the casing 10 10<sup>a</sup> and so as to overlap the cam-track 15, and it has a thickened portion 22, which engages the top of the cam-track, and a finger-piece 23, by which it can be easily moved. The finger- 90 lever is fast on a vertical shaft 24, which has a collar 25 at the top turning in the top of the casing 10 10<sup>a</sup>, (see Fig. 4,) and a second collar 26 on the shaft 24 turns on the top of a ledge 27, which extends inward from the part 95 10 of the casing. The shaft 24 has an extension 24<sup>a</sup> beneath, which is slightly eccentric to the part 24 and which is journaled in a second ledge 28 of the casing. On the part 24° of the shaft is a generally L-shaped crank 100 comprising parts 32 and 32a, (best shown in Figs. 4 and 5,) and these have at the elbow a vertical extension 33, as shown in the same figures. The shaft 24 also carries an oblong orking parts in proper place. | extension 29 on the sides, which is rounded at 105 | To prevent end movements of the parts 10 | the ends, and this extension or broken collar

is pressed on opposite sides by the flat springs 30, which are held between the lugs 31, (see Fig. 3,) and the pressure of the springs on the broken collar 29 tends to hold the lever 21 in 5 either open or closed position, as the case

may be.

When the lever is turned to the right to unlock the device, the shaft 24a is turned and the end portion 32<sup>a</sup> of the foot-crank of the 10 shaft strikes the part 20 of the crank 19 of the trunnion 18, and the continued movement causes the knuckle or raised portion 33 to strike the part 19, and so the turning of the trunnion 18 is continued until the arm 16 15 and the foot-piece 14 are swung up to the position shown in Fig. 2. The stop 34 (see Fig. 3) prevents the parts from turning too far, and the stop 35 in the path of one of the forks 16<sup>b</sup> prevents the parts from moving too 20 far in the opposite direction.

When the inger-lever 21 is turned to the left, the opposite movement takes place to that described above, the foot-piece 14 is released so as to swing down upon the second 25 sash, and the pressure of the inger-piece on the cam-track 15 squeezes the toot-piece firmly to place and securely locks the sashrails. It will be observed in this connection that the swinging arm 16 while affording the 30 connecting-link between the two members of the locking combination is also in such a position that it prevents a knife or other instrument from being thrust up between the sash-rails so as to engage the finger-lever 21.

Having thus fully described my invention, I claim as new and desire to secure by Let-

ters Patent—

1. A sash-lock, comprising a member adapted for attachment to a sash-rail, a sec-40 ond member unattached to, but adapted to fit against the second sash-rail, and a fingerlever supported on the first member and connected to the swinging member, which causes the said member to engage the said rail and 45 be placed in the path of the lever and to lift the swinging member from the second rail when the finger-lever is withdrawn.

2. A sash-lock, comprising a member adapted to be attached to one of the sash-50 rails, a second member unattached to but adapted to fit against the second rail, a finger-lever pivoted on the first-mentioned member, and an operative connection between the finger-lever and the swinging mem-55 ber whereby the swinging member is thrown in the path of the lever when the lever is moved to lock the sashes, and moved away from the second sash-rail when the lever is withdrawn.

60 3. A sash-lock, comprising a casing adapted for attachment to a sash-rail, a foot-piece unattached to but adapted to fit flatwise against the top of the second sash-rail, a finger-lever on the casing, and mechanism 65 within the casing operated by the finger-le-

ver and pivotally connected to the foot-piece so as to swing the latter into and out of the

path of the second sash-rail:

4. A sash-lock, comprising a member adapted for attachment to a sash-rail, a fin- 70 ger-lever on said member, a swinging arm hung on said member and operated from the finger-lever, and a foot-piece carried by the said arm and adapted to extend against the top of the second sash-rail, the said foot- 75 piece having an inclined track thereon to engage the finger-lever.

5. A sash-lock, comprising a casing adapted for attachment to a sash-rail, a finger-lever on the casing, a swinging arm extending 80 through the wall of the casing, an operative connection between the finger-lever and the swinging arm, and a foot-piece pivoted to the swinging arm and constructed to clamp down snug against the top of the second 85 sash-rail.

- 6. A sash-lock, comprising a casing adapted for attachment to a sash-rail, a finger-lever mounted on the casing, a shaft extending into the casing and operated by the finger- 90 lever, a swinging arm mounted on the casing and operated from the aforesaid shaft, and a foot-piece carried by the swinging arm and adapted to swing into the path of the second sash-rail, the said foot-piece having an in- 95 clined track formed to engage the fingerlever.
- 7. A sash-lock, comprising a member adapted for attachment to a sash-rail, a finger-lever pivoted on the member and adapt- 100 ed to swing over the second sash-rail, a footpiece adapted to contact with the second sash-rail and having an inclined track thereon to engage the finger-lever, and a swinging arm connecting the foot-piece to the first 105 member.
- 8. A sash-lock, comprising a casing adapted for attachment to a sash-rail, a swinging arm pivoted on the casing and adapted to extend over the second sash-rail, said arm hav- 110 ing cranks extending into the casing, a footpiece pivoted on the swinging arm and adapted to strike the top of the second sashrail, a finger-lever on the casing operatively connected with the cranks to turn them, and 115 a locking connection between the finger-lever and the foot-piece.
- 9. A sash lock, comprising a member adapted for attachment to a sash-rail, a footpiece forming the second member and adapt- 120 ed to swing against the top of the second sash-rail, a lever pivoted on the first member and adapted to swing into locking engagement with the foot-piece, a swinging arm or support connecting the foot-piece and the 125 first member and arranged between the finger-lever and the sash-rails, and means for operating the swinging arm by movement of the finger-lever.
  - 10. A sash-lock, comprising a casing 130

adapted for attachment to a sash-rail, a finger-lever pivoted on the casing, a shaft turned by the finger-lever and extending downward into the casing, said shaft having a crank thereon, a swinging arm pivoted on the casing and having a crank extending into the path of the first-mentioned crank, a footpiece carried by the swinging arm and adapt-

ed to strike the top of the second sash-rail, and a locking engagement between the foot- 10 piece and the finger-lever.

WILLIAM SCHUCH.

Witnesses:

Peter Koehl, Jr., John C. Lavaggi.