

F. D. RAFORTH.
WINDOW SASH LOCK.
APPLICATION FILED DEC. 21, 1908.

925,650.

Patented June 22, 1909.

Fig. 1.

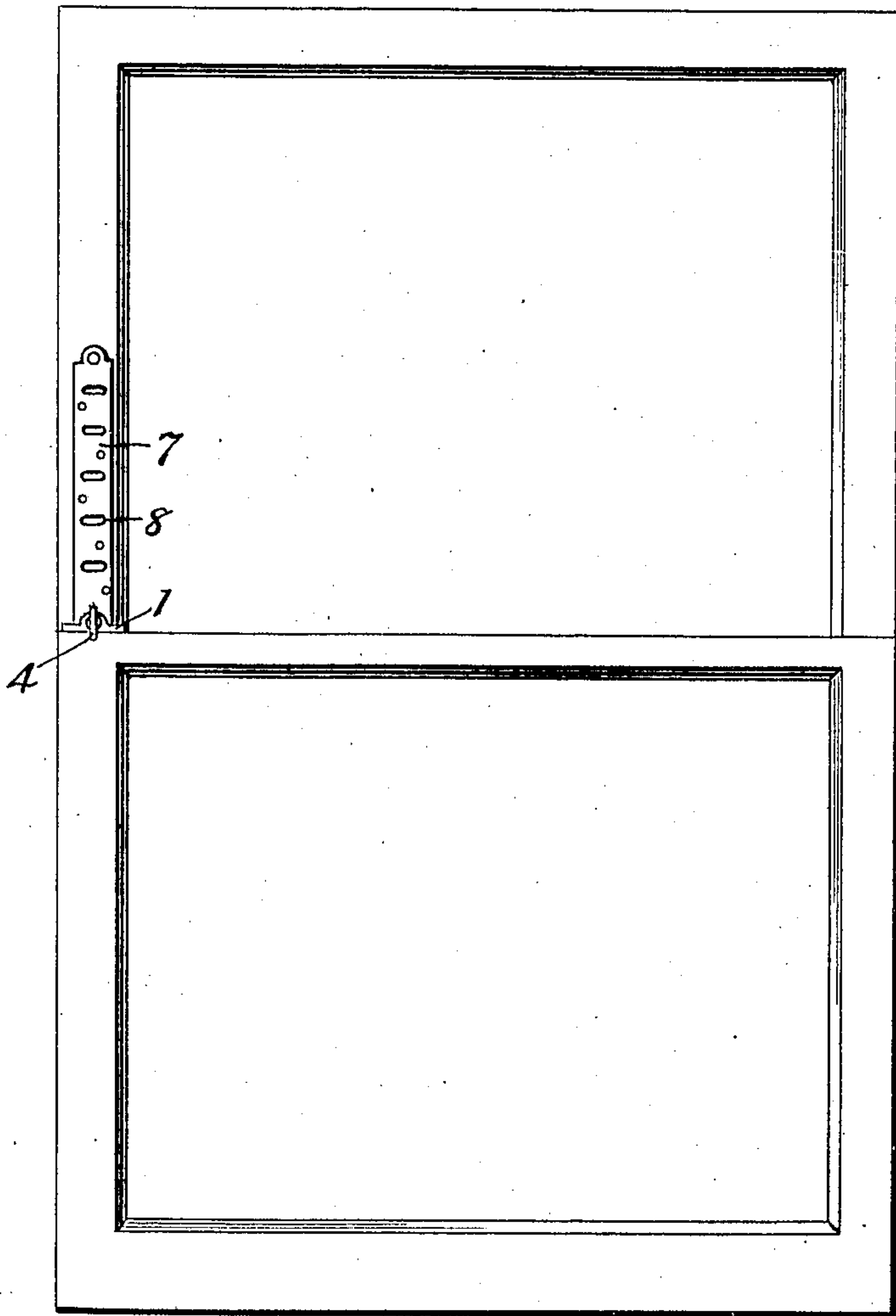


Fig. 3.

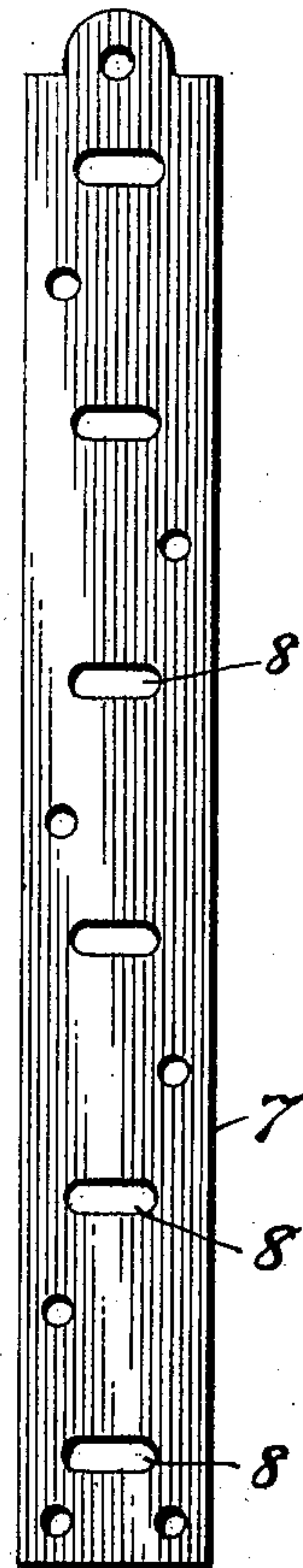
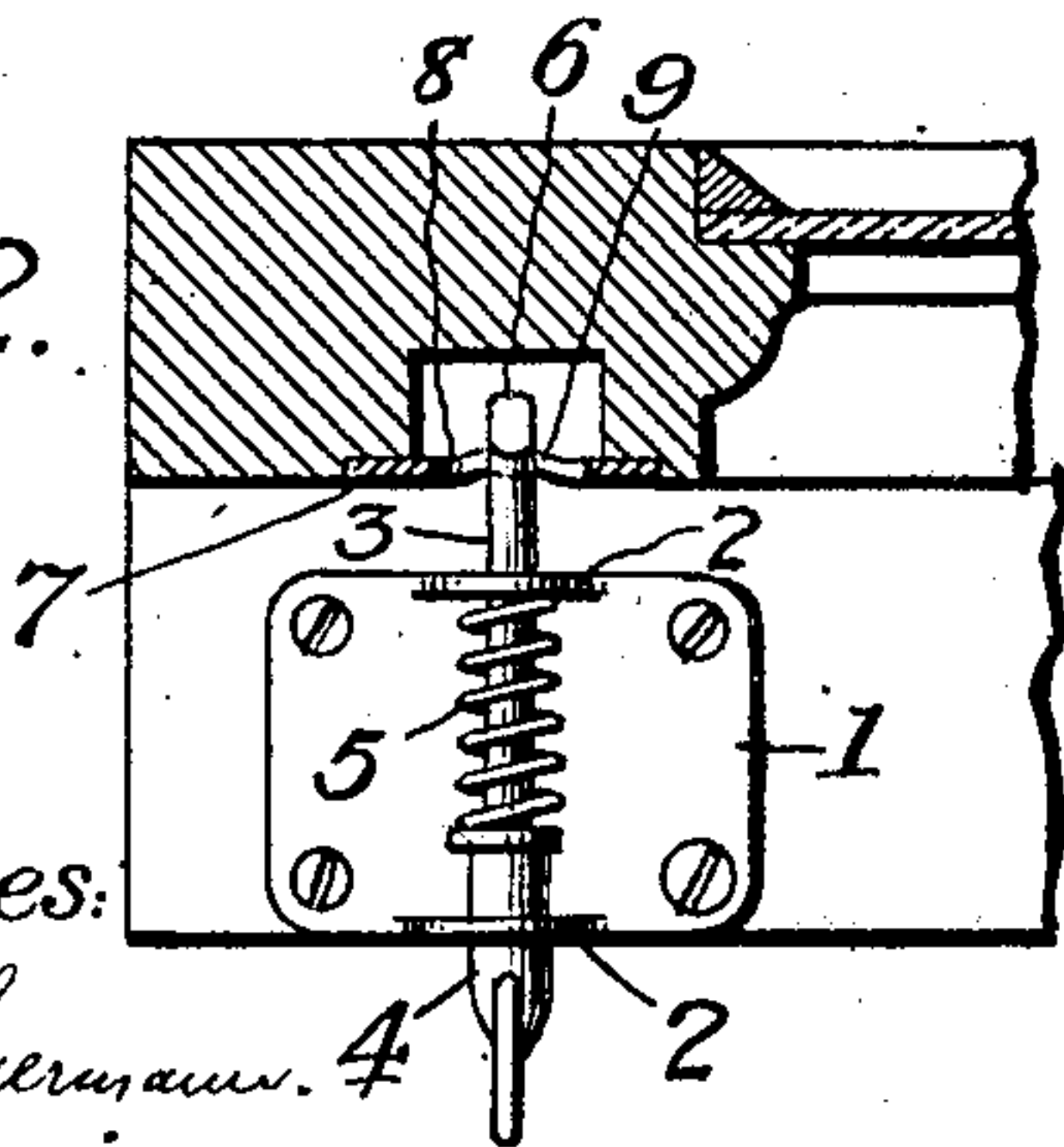


Fig. 4.



Fig. 2.



Witnesses:

E. C. Schumann.

[Signature]

Fig. 5.

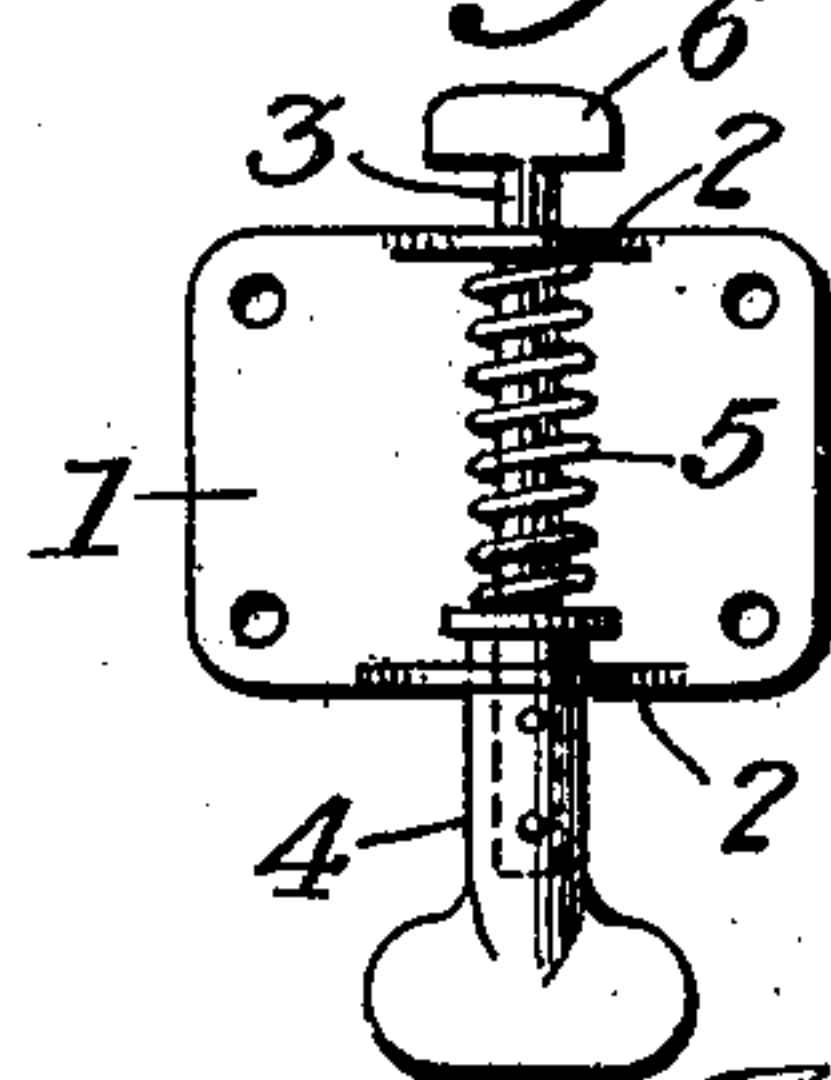
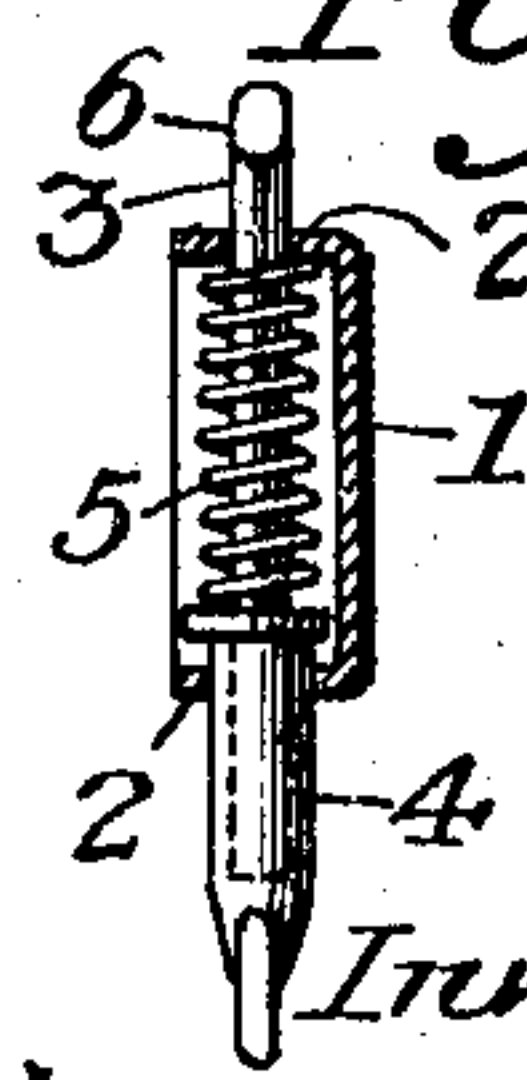


Fig. 6.



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UNITED STATES PATENT OFFICE.

FREDERICK D. RAFORTH, OF DUBUQUE, IOWA, ASSIGNOR TO LORENZO O. HILLYARD, OF DUBUQUE, IOWA.

WINDOW-SASH LOCK.

No. 925,650.

Specification of Letters Patent.

Patented June 22, 1909.

Application filed December 21, 1908. Serial No. 468,567.

To all whom it may concern:

Be it known that I, FREDERICK D. RAFORTH, a citizen of the United States, residing at Dubuque, Iowa, have invented certain
5 new and useful Improvements in Window-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
10 appertains to make and use the same.

The object of the invention is to provide a simple, cheap, durable, and efficient sash lock which may be employed to positively
15 lock a window in open or closed position and which will prevent the lock being operated and the window opened from the outside.

In the accompanying drawings, Figure 1 is a vertical elevation of a window having the improved lock applied thereto, Fig. 2
20 is a fragmentary view of the upper and lower sash of a window showing the lock in closed position, Fig. 3 is an elevation of the plate member of the lock, Fig. 4 is a horizontal section thereof, Fig. 5 is a plan view
25 of the bolt, and Fig. 6 is a longitudinal section through the bolt mechanism.

Referring to the drawings, 1 indicates a base plate adapted to be fastened by screws or other suitable means to the upper face of
30 the top rail of the lower sash of a window, said plate having thereon upstanding ears or lugs 2, in which is slidably mounted a locking bolt consisting of a shank 3, and a hand-piece 4, secured together by pins or
35 rivets, the inner end of the shank 3 being provided with an angularly-disposed T-shaped head 6. For the purpose of normally retracting the bolt, the latter is provided with a helical spring 5, operating between the
40 inner lug or ear 2, and the flanged end of the hand-piece 4.

Mounted on the stile of the upper window sash is a generally flat sheet metal plate 7, secured to the sash by screws or other appropriate fastening means, and provided
45 throughout its length with a series of spaced horizontal slots 8 of sufficient size to permit passage of the T-head 6 of the bolt member, when the latter is turned into horizontal po-

sition, but preventing the withdrawal of
said head 6 when the same is turned to vertical relation, as indicated in Fig. 2.

In order to prevent the bolt being accidentally turned, when the same is in locking engagement with the keeper plate 7, the
55 latter is provided adjacent the edges of the slots 8 with recesses 9, preferably formed by bending or crimping the metal of the plate, as more particularly illustrated in Fig. 4.

In applying the lock to secure the window
60 in open or closed position, the bolt is turned so that the T-head 6 is horizontal and lies opposite one of the slots 8 in the plate 7. The bolt is then forced inward against the tension of spring 5, until the T-head 6 passes
65 through the registering slot 8, after which the bolt is given a quarter turn and released. This causes the T-head 6 to drop into the recesses 9 on each horizontal edge of the slot
70 8, thereby locking the upper and lower sash rigidly together, the spring 5 serving to retract the bolt and hold the same in positive engagement with the recesses in plate 7.

Obviously, when the sashes are to be
75 locked in closed position, the bolt will be engaged with the lowermost slot in plate 7 and when either of the sash is to be locked in partially open position, the bolt will be engaged with an appropriate slot 8 to effect
80 the desired purpose.

What I claim is:--

A sash lock comprising a sliding T-headed bolt adapted to be secured to the top rail of the lower sash, and a flat sheet metal plate adapted to be secured to the stile of the upper
85 sash and provided with a slot to receive the head of the bolt, said plate having a locking depression for said head at its rear face formed by a bend or crimp in the metal adjacent the slot, and a spring acting on said
90 bolt to retract the same and hold said head firmly seated in said depression.

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

FRED. D. RAFORTH.

Witnesses:

O. H. FIEGENBAUM,
LOUIS TRUEB.