

(No Model.)

W. KOENEN.

FASTENER FOR THE MEETING RAILS OF SASHES.

No. 404,916.

Patented June 11, 1889.

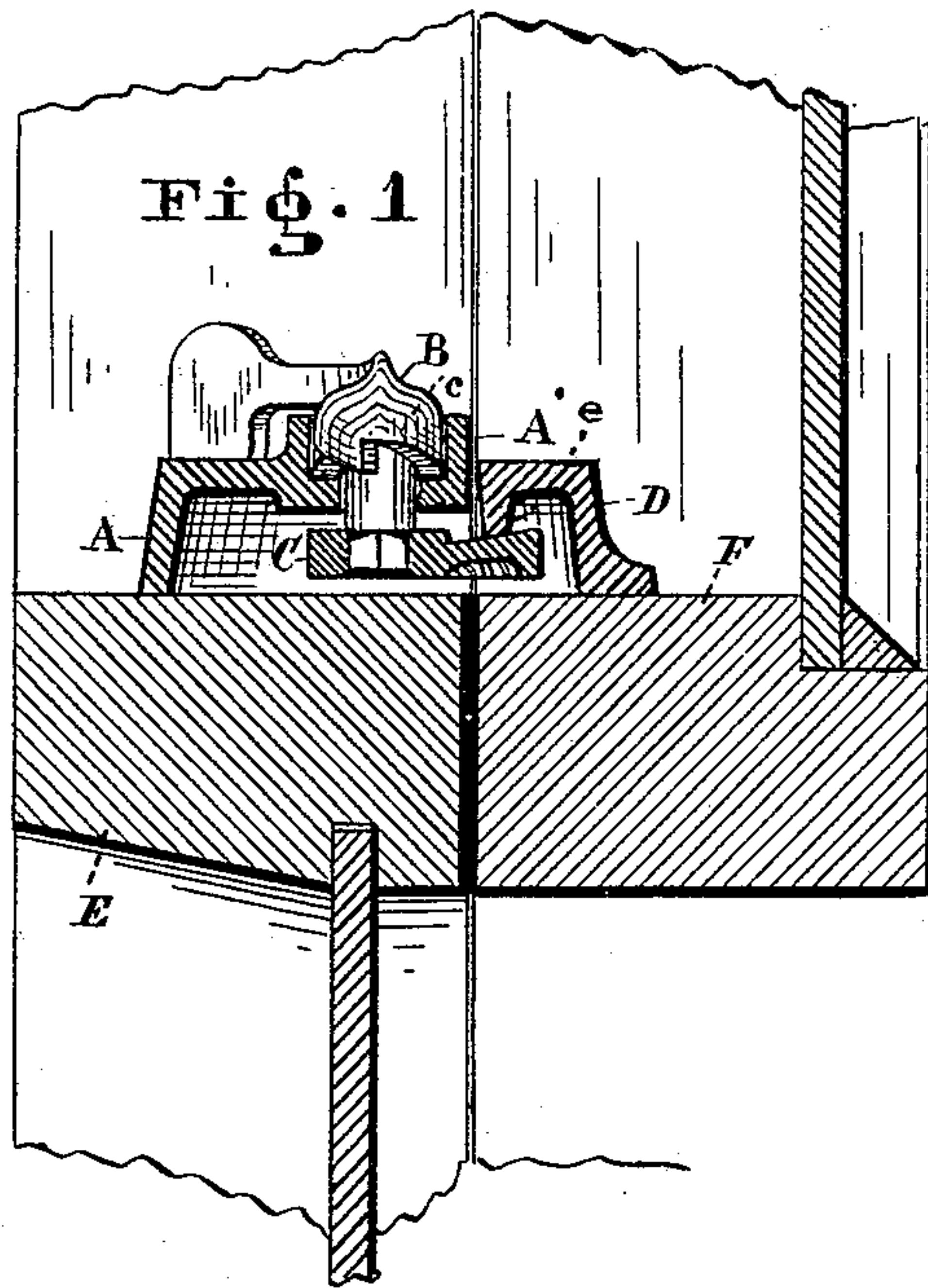


Fig. 3

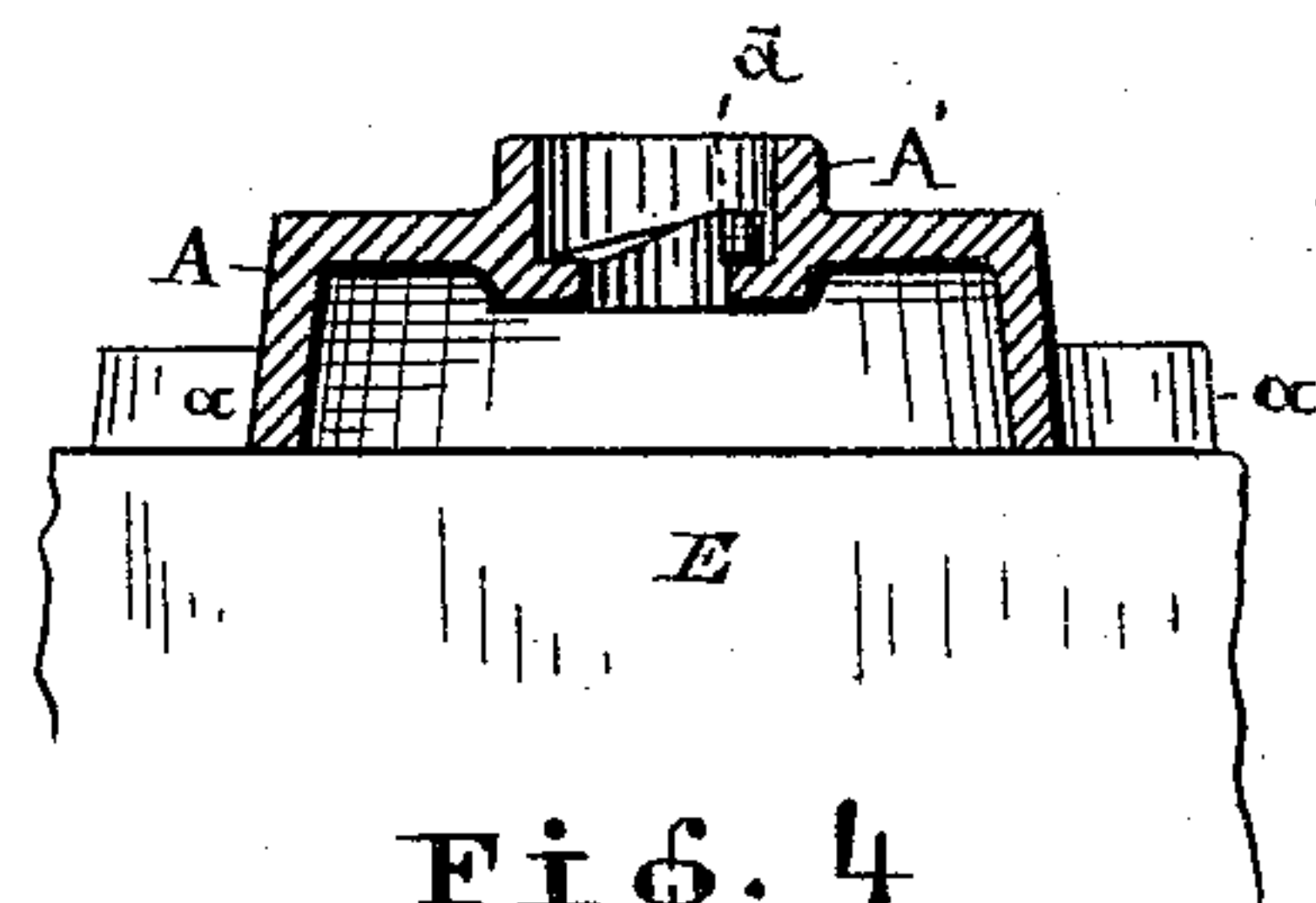


Fig. 4

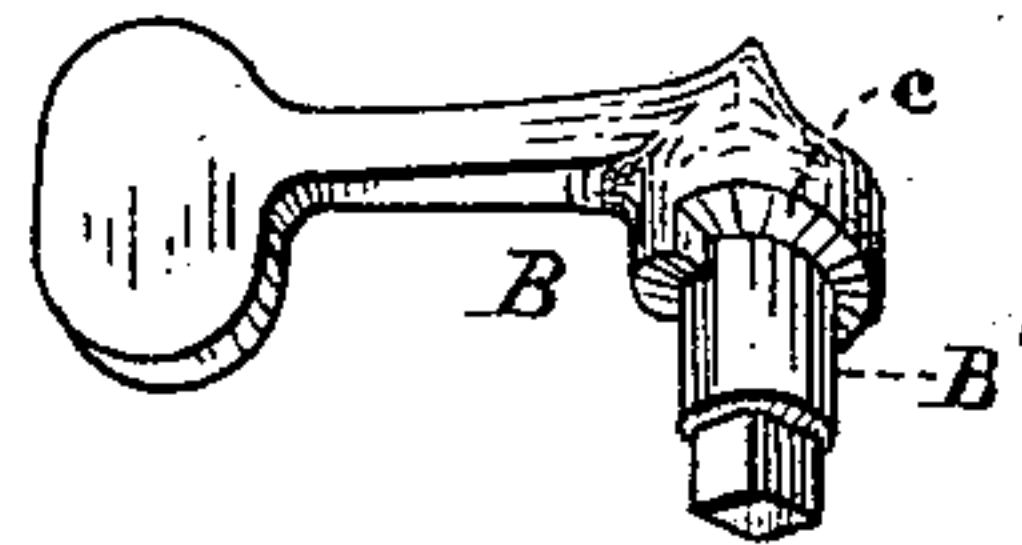


Fig. 5

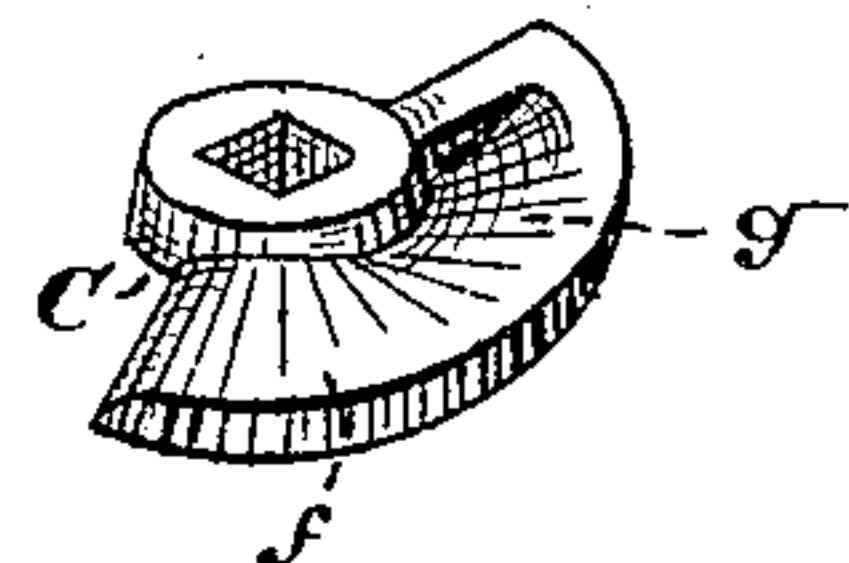
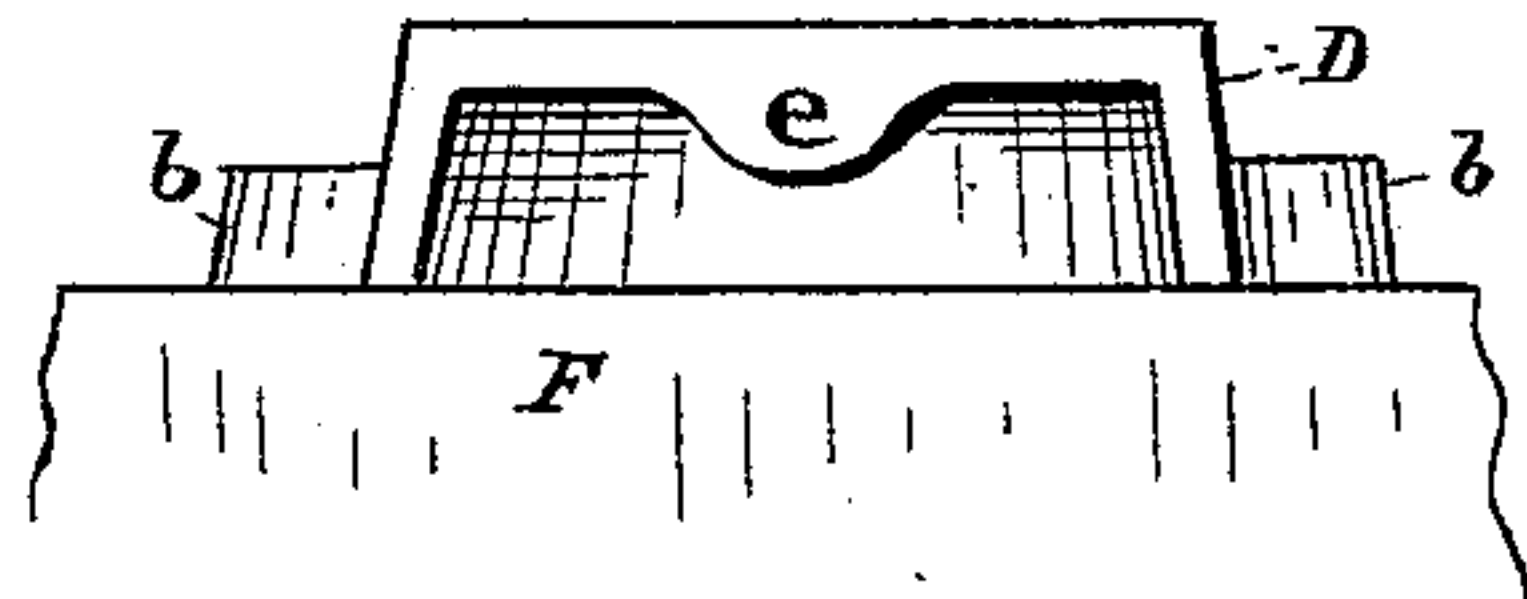


Fig. 6

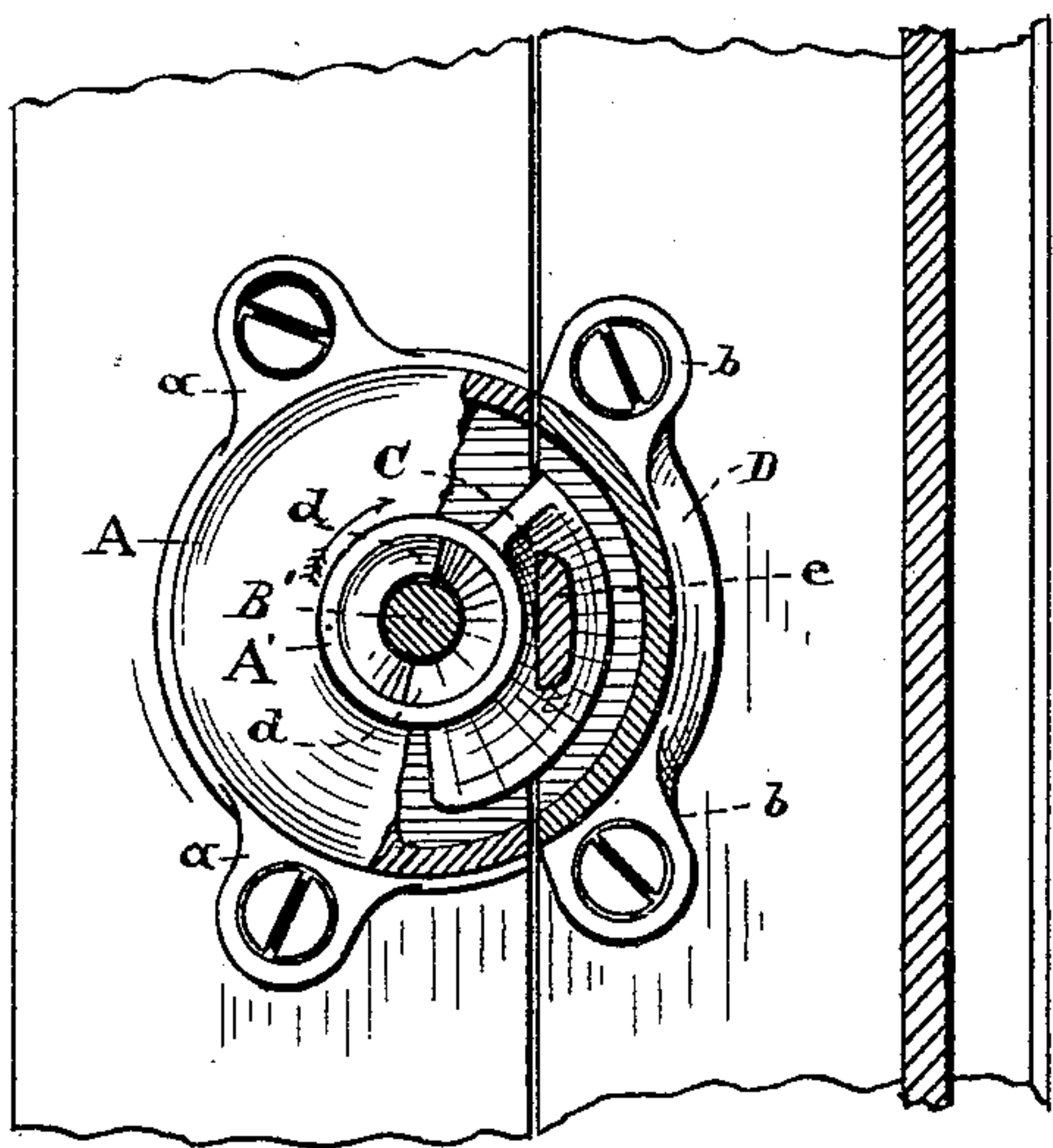


Fig. 2

WITNESSES

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FASTENER FOR THE MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 404,916, dated June 11, 1889.

Application filed January 10, 1889. Serial No. 295,969. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM KOENEN, a subject of the King of Prussia, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Sash-Locks; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to sash-locks applied to the meeting-rails of sashes for raising the upper sash and for locking both the sashes within the casing to prevent them from rattling and from being opened from the outside.

The improvement consists in the peculiar means for accomplishing in consecutive order but one continuous operation the lifting of the upper sash and the locking of the meeting-rails.

That the invention may be fully understood, reference will be had to the annexed specification and the accompanying drawings, in which—

Figure 1 represents a vertical central section through said lock and the meeting-rails of the sashes to which it is attached. Fig. 2 is a plan view of the same, having a part of the casing of said lock removed or broken away for illustration of the interior operative parts thereof. Figs. 3, 4, 5, and 6 are detached sections and views of said lock, which hereinafter are referred to.

Like letters of reference refer to like parts in the drawings and specification.

The lock substantially consists of the following parts, viz: A is the main casing; B, the pivotal lever; C, the segmental locking-plate, and D the supplementary casing. The casing A is secured to the meeting-rail E of the lower sash and D to the rail F of the upper sash, which casings, when joined, comprise a circular form, as seen in Fig. 2. The lugs *a* and *b*, extending out laterally from either of said casings, are adapted to receive screws to secure the casings to their respective rails.

The casing A is provided with a hub A', as seen in Figs. 1, 2, and 3, within and by which the lever B is guided in swinging the locking-plate C, which is secured to the lower end of the pin B' of said lever. The head of the pin B' rests upon a recess within the hub A', and thereby holds the plate C suspended within

the interior of the casing A. The under side of said head and the face side of said recess are provided with two or more inclined depressions *c* and corresponding projections *d*— that is, the former representing the counterparts of the latter, or vice versa, as seen in Figs. 1, 3, and 4.

Fig. 3 represents a central cross-section through the casing A and its hub, whereas Fig. 4 is a perspective view of the pivotal lever B. The inclinations constituting said reverse depressions and projections allow of an easy gradual disengagement, which results in changing the relative position of said pin B' within the hub A'—that is, on turning the lever in direction of the arrow the pin will be raised within and by said hub A', carrying the plate C with it. By the lever B the plate C is thus swung from out and in the casing A and raised or lowered while swinging.

In Fig. 5 is illustrated a face view of the casing D as attached to the meeting-rail of the upper sash F. In front said casing D has a lug *e* depending therefrom, under which is forced the plate C, for raising the upper sash and locking the meeting-rails of both the sashes.

It will be noticed in Fig. 6, which is a perspective view of said plate C, that the upper side thereof is partly level and partly inclined toward the center. The level part *f* of said plate simply lifts the upper sash before the meeting-rails are locked, which is assured by the inclined part of said plate.

Both the lifting and locking are accomplished with the lever B, yet the locking only begins when no more lifting can be done and the lever is still turned in the direction as before stated. The ascending plate C in that instance induces the lug *f* to slide down the inclined part *g* of said plate C until the meeting-rails are brought in tight contact with each other, and thereby lock the sashes within the casing.

What I claim, and desire to secure by Letters Patent, is—

1. In a sash-lock, the combination of the hub of the main casing having a recess with two or more inclined projections, and the pivotal lever carrying the locking-plate provided with corresponding depressions on the under

side of the head thereof for lifting said plate, constructed and arranged substantially as shown and set forth.

2. In a sash-lock, the combination of the
5 main casing-hub having a recess with one or more cam-faces, the pivotal lever, the locking-plate having a partly level and partly centrally-inclined face, and a lug depending from

the casing of the upper sash, acting conjointly in the manner and for the purpose described. 10

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

WILLIAM KOENEN.

Witnesses:

B. F. EIBLER,

AUG. H. BENDER.