

(No Model.)

P. SEILER.

SASH LOCK.

No. 348,696.

Patented Sept. 7, 1886.

Fig. 1.

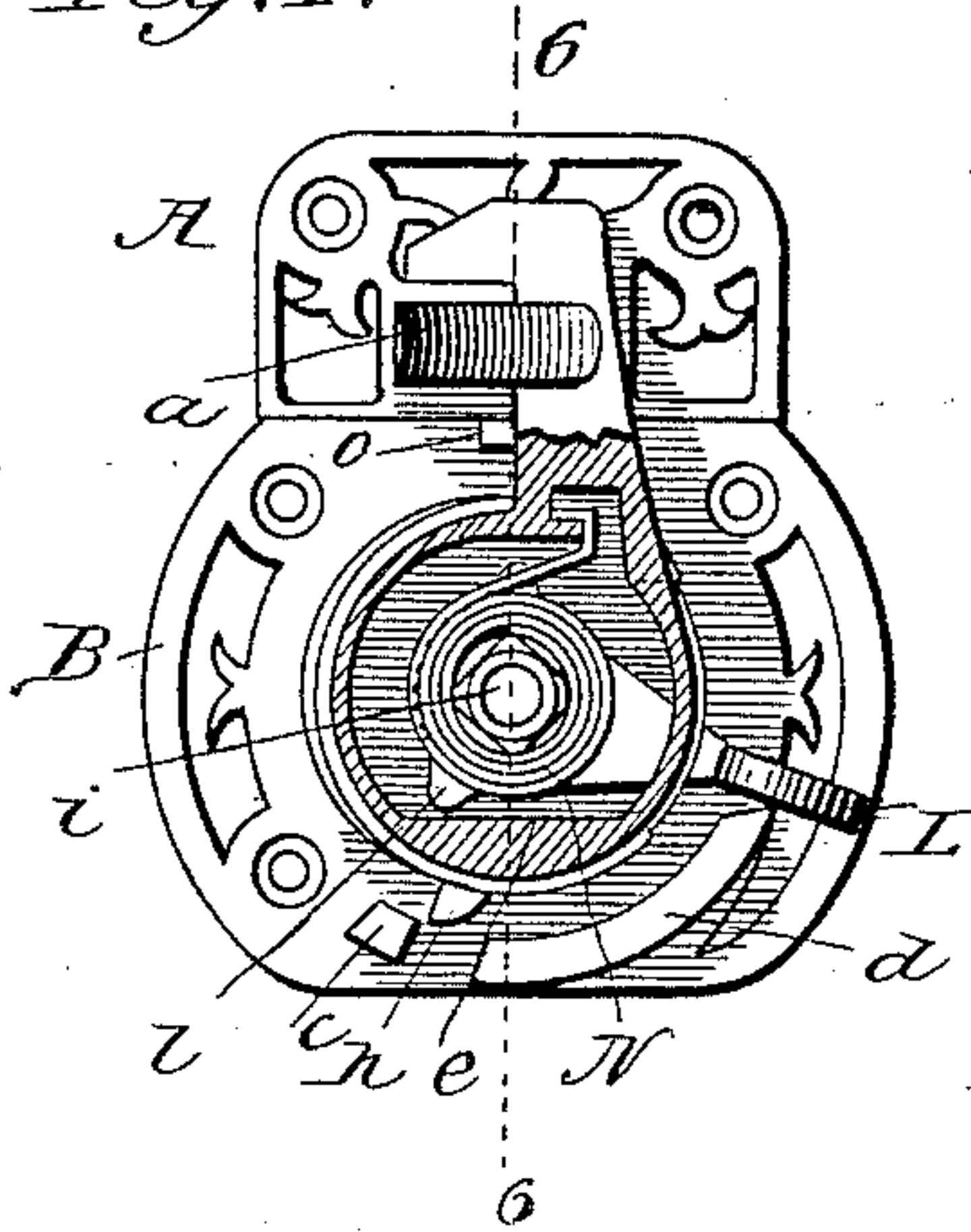


Fig. 2.

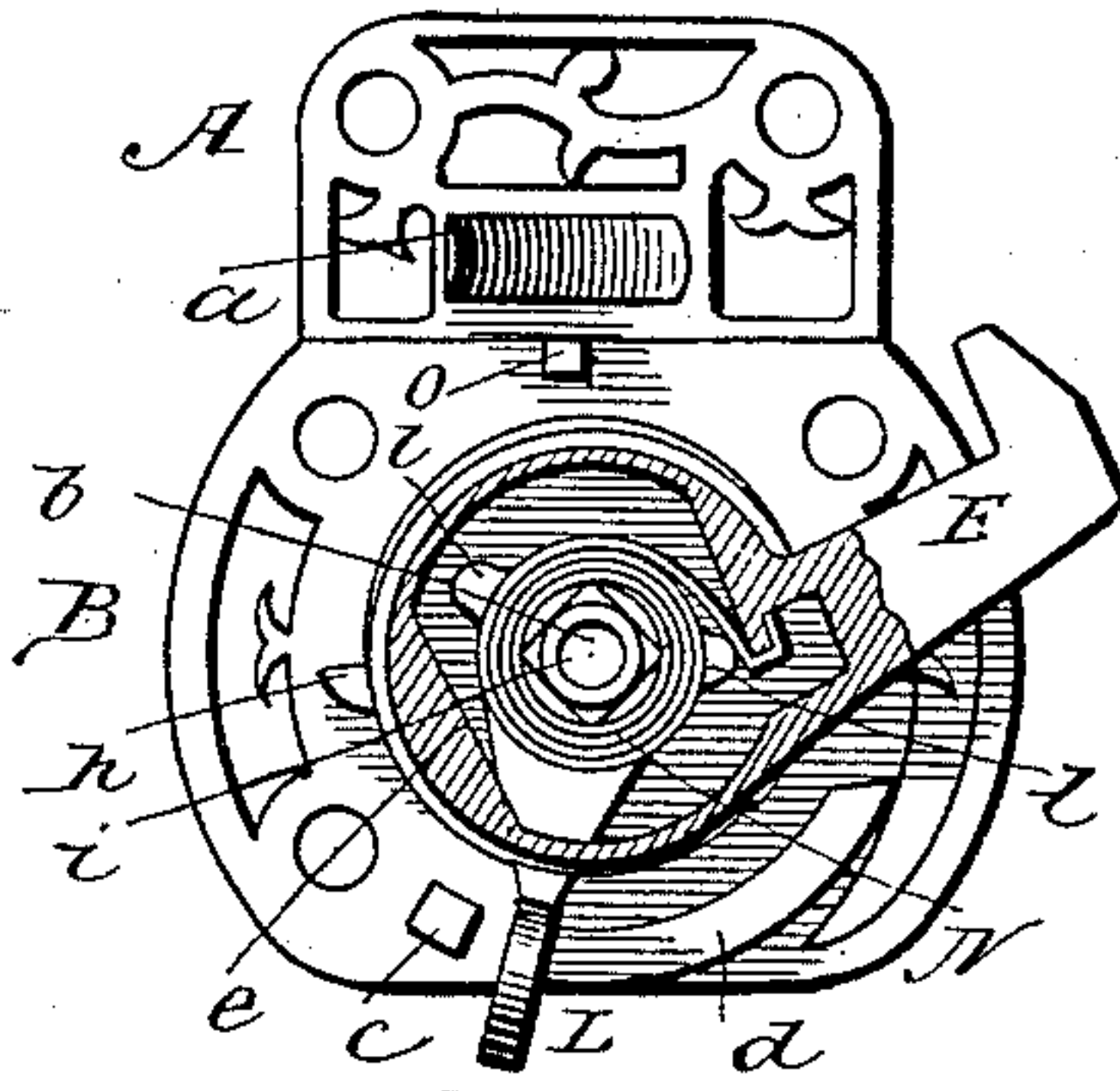


Fig. 4.

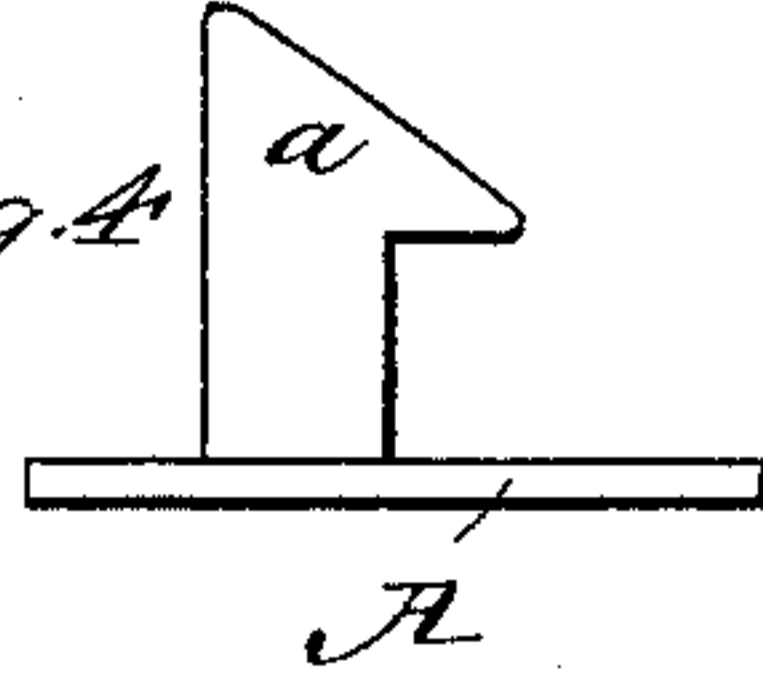


Fig. 3.

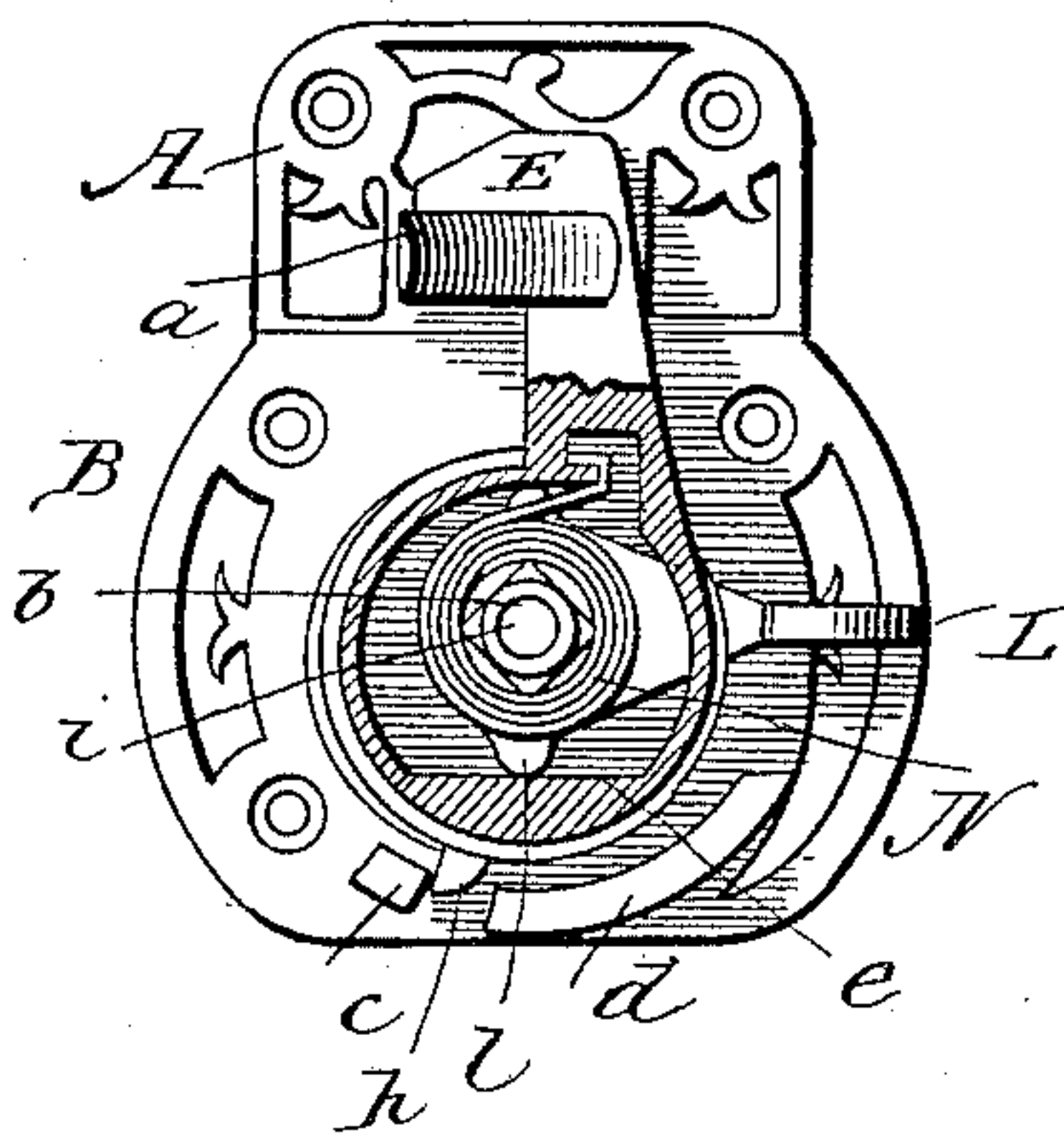


Fig. 5.

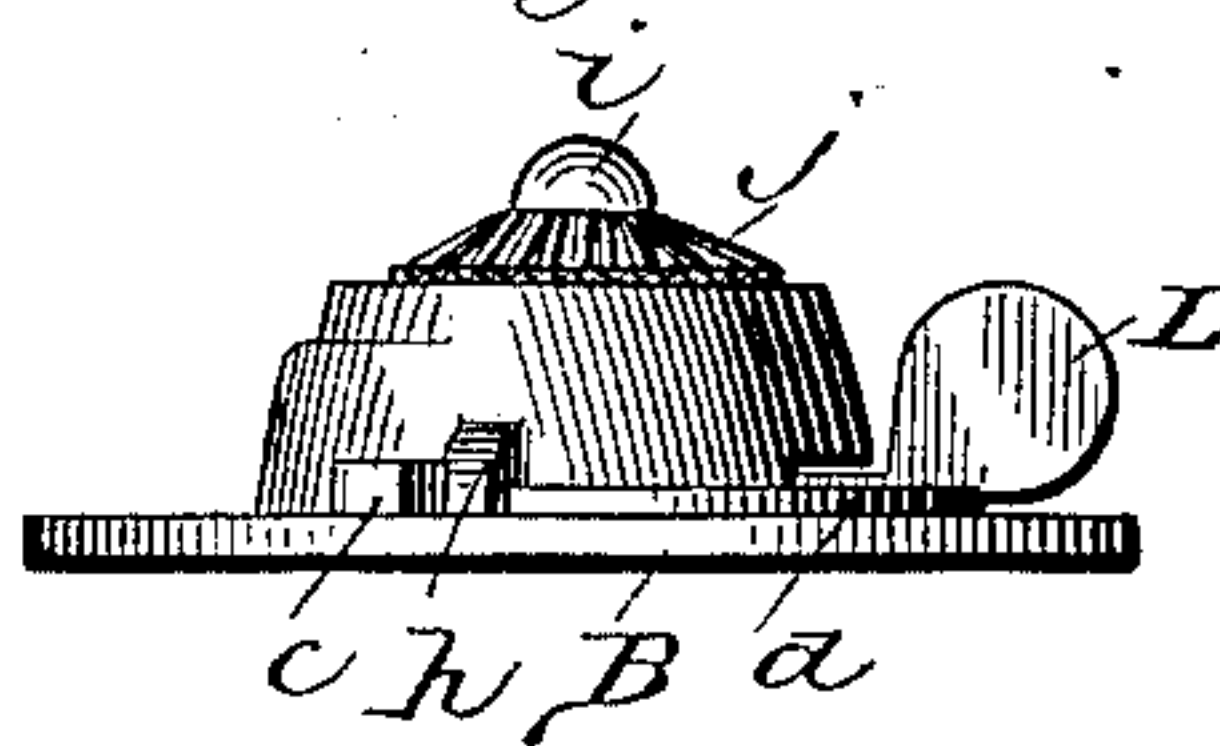


Fig. 8.

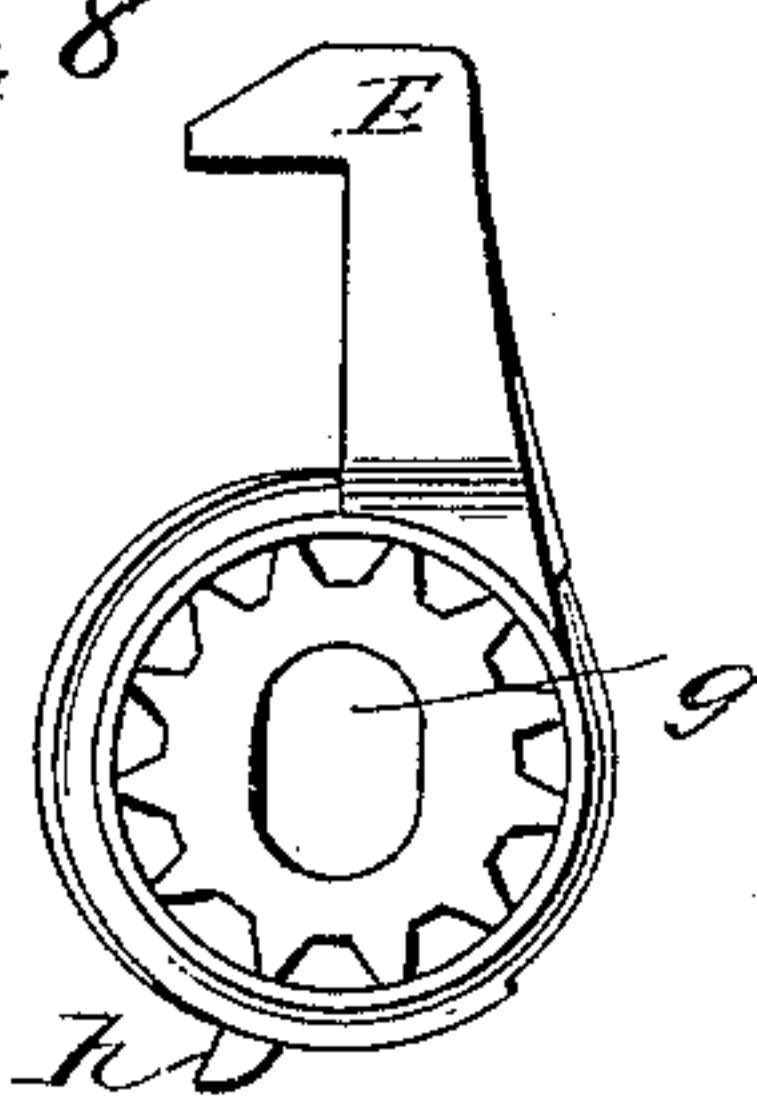


Fig. 7.

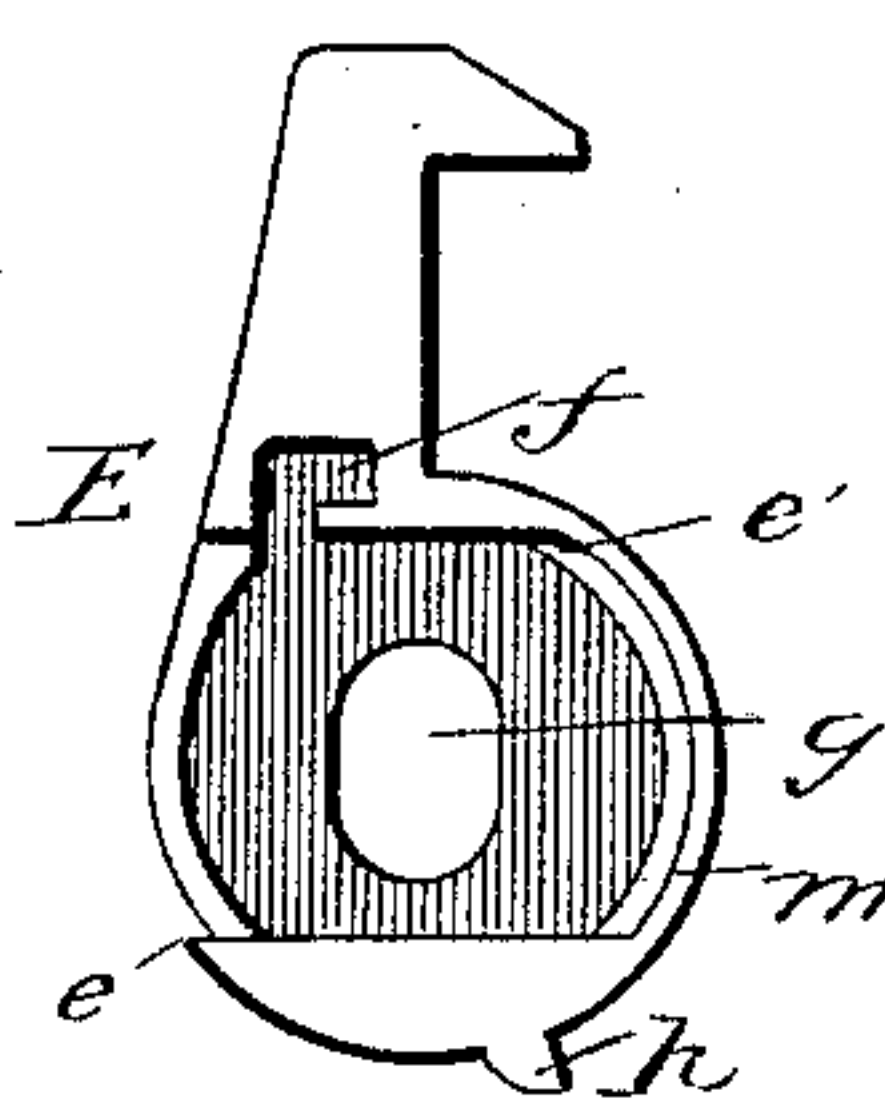


Fig. 6.

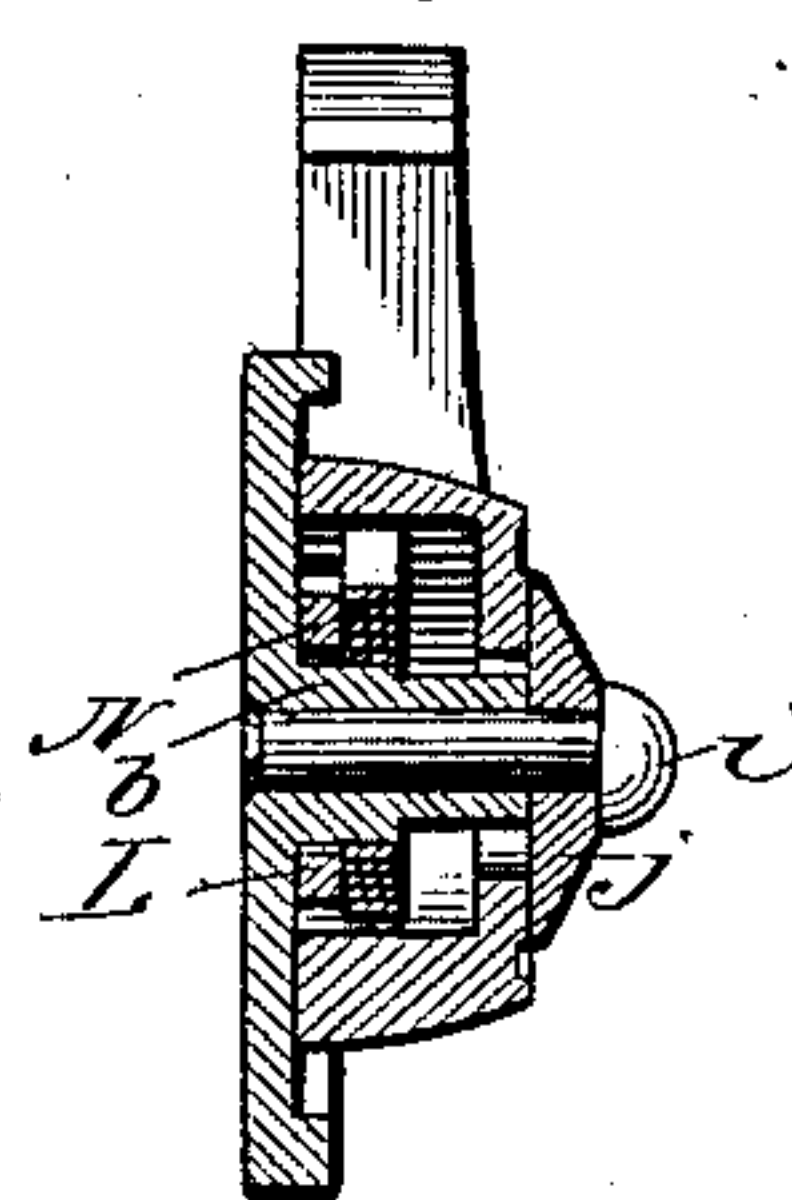
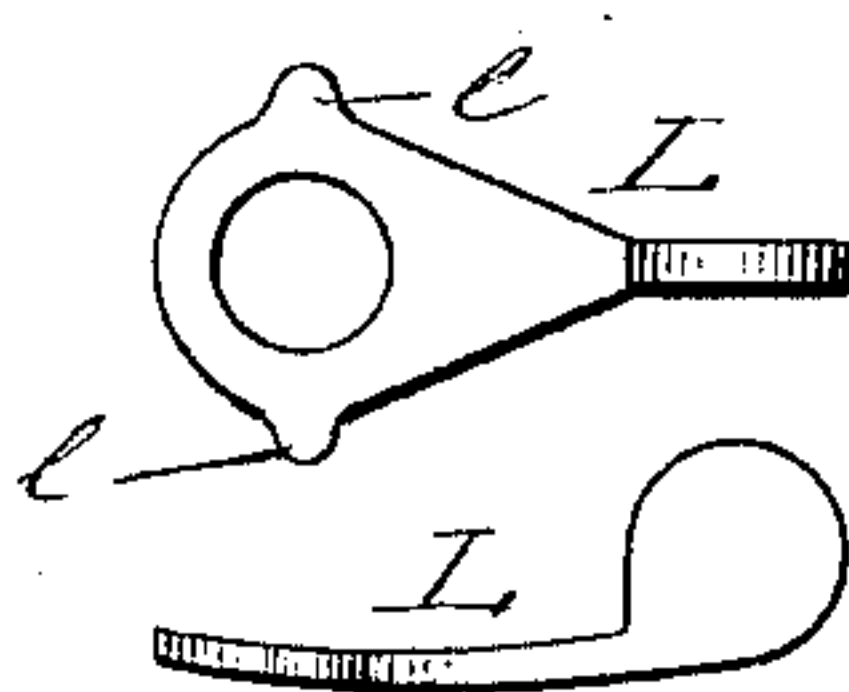


Fig. 9.



Witnesses.

W. Rosner.

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Inventor,

Philipp Seiler

By, Wm. Lotz
Atty.

UNITED STATES PATENT OFFICE.

PHILIPP SEILER, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO
JAMES KOHLSAAT, OF SAME PLACE.

SASH-LOCK.

SPECIFICATION forming part of Letters Patent No. 348,696, dated September 7, 1886.

Application filed June 29, 1886. Serial No. 206,653. (No model.)

To all whom it may concern:

Be it known that I, PHILIPP SEILER, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, 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 devices for securing the meeting-rails of the upper and lower sashes of a window when closed, and it has been my object to produce a fastening that, with closing the window, will be self-locking, and that, after being locked, enables the contracting of the sash one against the other, to form a close joint, that will exclude the entrance of cold air, and will prevent rattling during stormy weather.

My invention therefore consists of the novel devices and combinations of devices herein-after described and specifically claimed.

In the accompanying drawings, Figure 1 represents a sectional plan of the device in position, having automatically locked the sashes after closing the window. Fig. 2 is a similar view, the latch being secured on its out-of-contact position, for clearing entirely the upper sash; and Fig. 3, a similar view again with the latch-hook moved to clamp the meeting-rails of the sashes against each other. Fig. 4 is an end view of the hook-plate for the upper sash; Fig. 5, an end view of the sash-lock; Fig. 6, a vertical section on line 6 6 in Fig. 1; Fig. 7, a bottom view, and Fig. 8 a plan view, of the latch detached; and Fig. 9, a plan and edge view of the latch swinging and shifting lever.

Corresponding letters in the several figures of the drawings designate like parts.

A denotes the plate, secured upon the lower rail of the upper sash, that has a rigid hook, *a*, and B is the lock-plate secured upon the lower sash and shaped like the zone of a circle, with a tubular stem, *b*, in its center, which is round at its base and end and squared at its middle portion. This plate B is also provided near its periphery with a lug, *c*, and with a segmental ridge, *d*, that at its rear end forms an inclined shoulder, and upon its forward end the plate B has a lug, *o*.

E is the latch, consisting of a hook having

a circular hub, that is cored out in its bottom to form a socket having parallel faces *e* and *e'*, which are perpendicular to the shank of the hook part. The hub has also an L-shaped socket, *f*, in which is secured the end of a spring. Through the center of its hub the latch E has an eye, *g*, which is oblong on the line of the hook-shank, to afford a sliding motion in that direction on its pivot; and to its rear lower edge is formed a nose, *h*, adapted to engage with lug *c*. This latch E is placed upon plate B, with the end of stem *b* entering the eye *g* of the latch-hub to be flush therewith, and a rosette-shaped washer, *j*, secured on top of stem *b* by a rivet, *i*, holds the parts together.

Upon the lower round part of stem *b* is pivoted the hub of a lever, L, which has formed to each side of its pivot-eye a cam projection, *l*, both cam projections being diametrically opposite each other on a line perpendicular to the center line of the lever. This lever is somewhat curved, to afford a slight rocking movement, sufficient to its passing over segmental ridge *d* and then to be engaged behind the inclined shoulder thereof. The wall *m* of the socket part of latch E is sufficiently cut away to clear the lever L where it projects from under, and to allow it a free swing of about one-quarter of a revolution.

Upon the square portion of stem *b* of the plate B is secured the inner end of a coiled spring, N, the outer end of which is hook-shaped, and is engaged with the L-shaped socket *f* of latch E, in a manner that this spring N will exert its elastic force to push the latch E toward and against lug *o*, which limits the movement of such latch. With closing the window, the latch E, when brought in contact with the hook *a* by sliding over the beveled end thereof, will be pushed sidewise, to clear such hook, and will then be swung by the spring to engage under such hook *a*, so as to be self-locking. The lever L not only forms the handle by which the latch E is turned out of engagement with hook *a* for opening the window, but by swinging it farther in the same direction until such lever L engages behind the end shoulder of segmental ridge *d*, the latch can be locked on a position entirely clearing the upper window-sash, which will

be found particularly desirable for washing the windows, for which purpose the positions of the sash are frequently reversed; and after the latch E has been locked with hook *a*, by
5 turning lever L in the direction toward such latch-hook, its rear cam, *l*, will be brought in contact with face *e* of the socket of latch E, and will shift the latch rearward, whereby the hook of such latch will engage the shank of
10 hook *a*, and will clamp the meeting-rails of the sash against each other, and whereby the nose *h*, otherwise clearing lug *c*, will be moved behind such lug *c*, that then will form a stop or shoulder against turning the latch out of
15 engagement with hook *a*.

What I claim is—

1. The combination, with hook *a*, of swinging latch E, having a hook to its end and being provided with a spring, N, and lever L,
20 for self-locking and for clamping the sash, substantially as and for the purpose set forth.

2. The combination, with hook *a*, of latch E, with spring N and lever L, adapted to engage with the shoulder of ridge *d*, substantially as and for the purpose set forth. 25

3. The combination, with plate A and hook *a*, of hook-latch E, pivoted upon stem *b* of plate B, of spring N, and lever L, having cam projections *l*, substantially as described, to operate as specified. 30

4. The combination, with plate A and hook *a*, of latch E, having nose *h* and pivoted upon stem *b* of plate B, having lug *c*, and of spring N, and lever L, with cam projections *l*, all substantially as described, to operate as specified. 35

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

PHILIPP SEILER.

Witnesses:

WM. H. LOTZ,
OTTO LUEBKERT.