

(No Model.)

M. SONNESCHEIN.

FASTENER FOR THE MEETING RAILS OF SASHES.

No. 452,200.

Patented May 12, 1891.

Fig. 1.

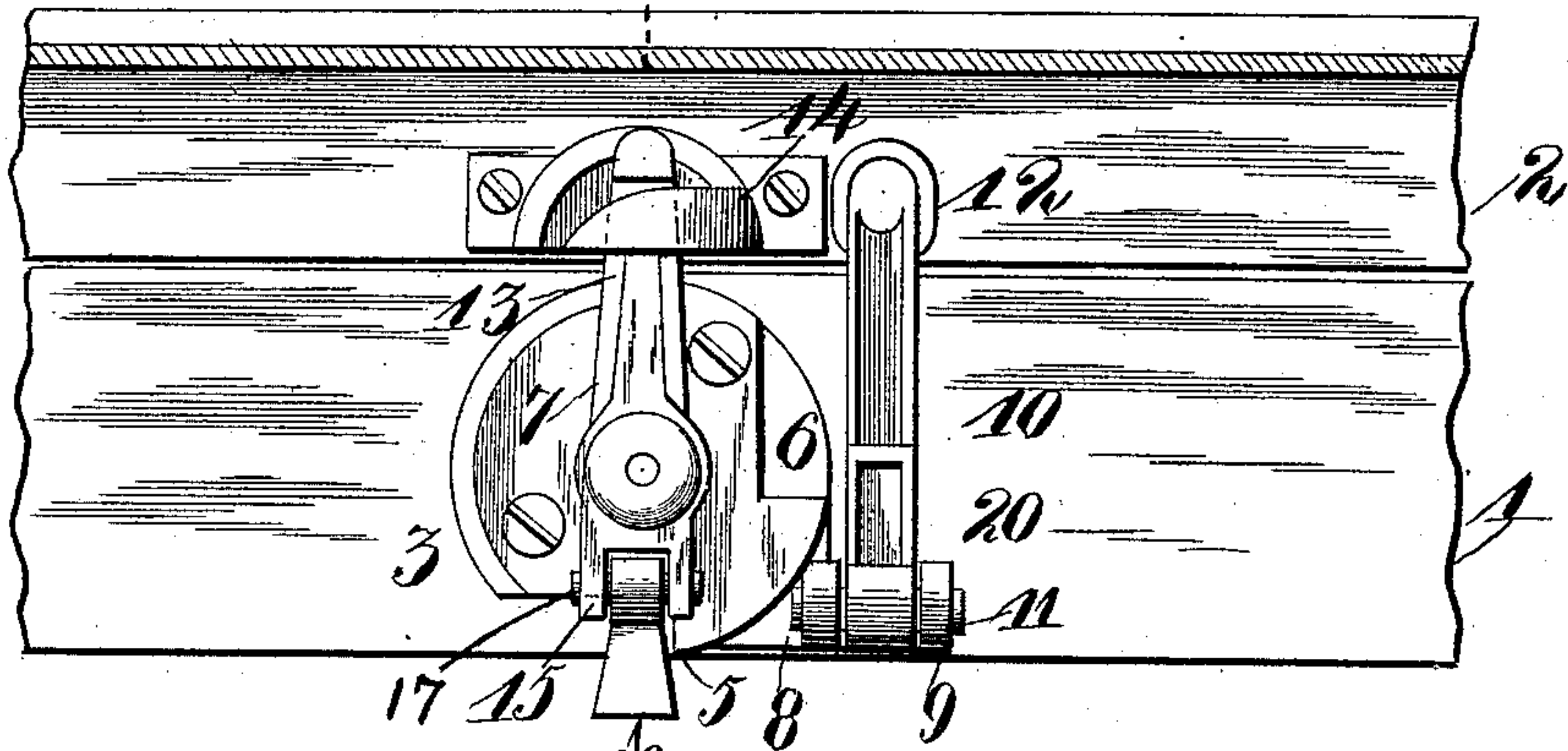


Fig. 2.

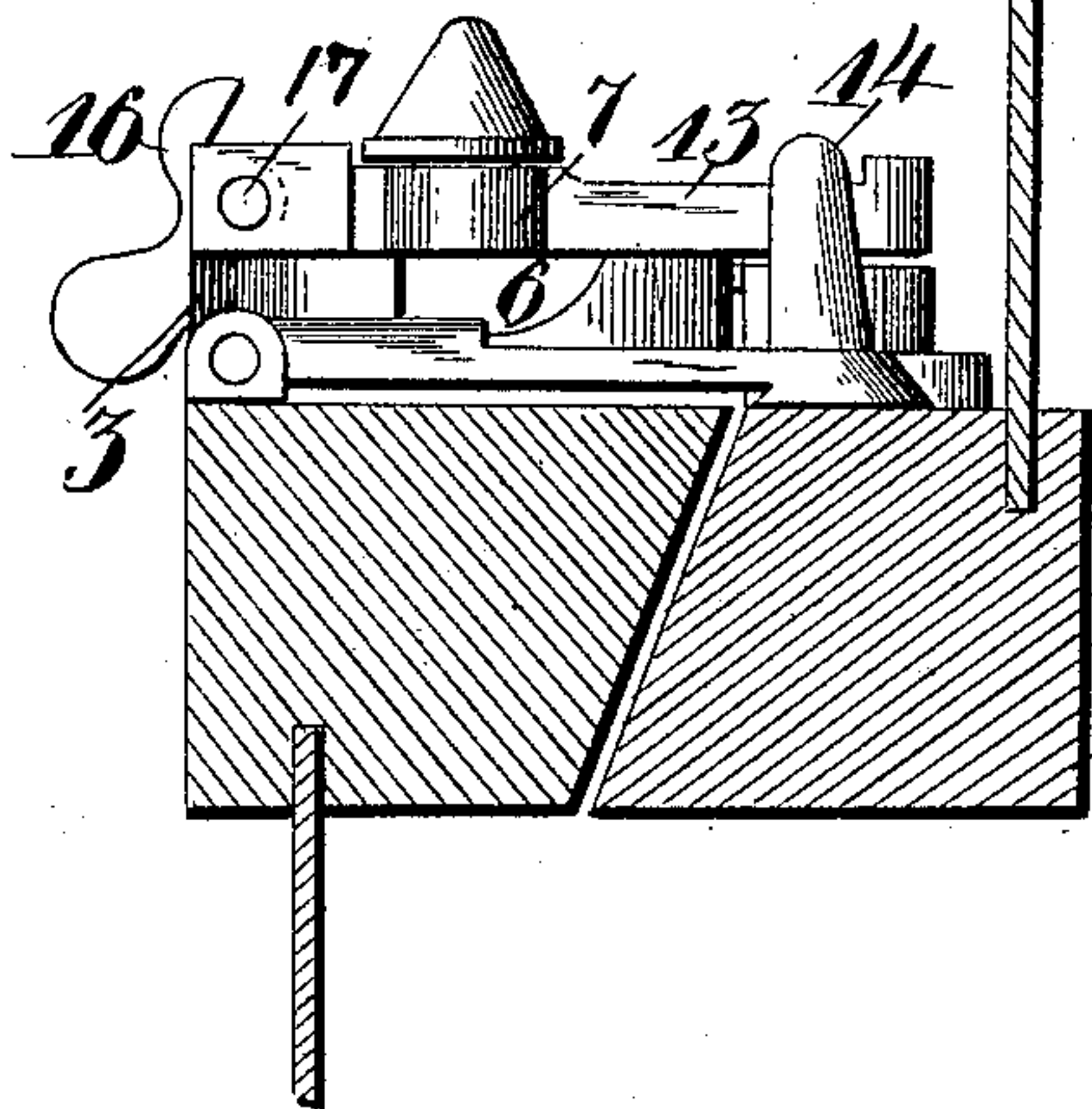


Fig. 3.

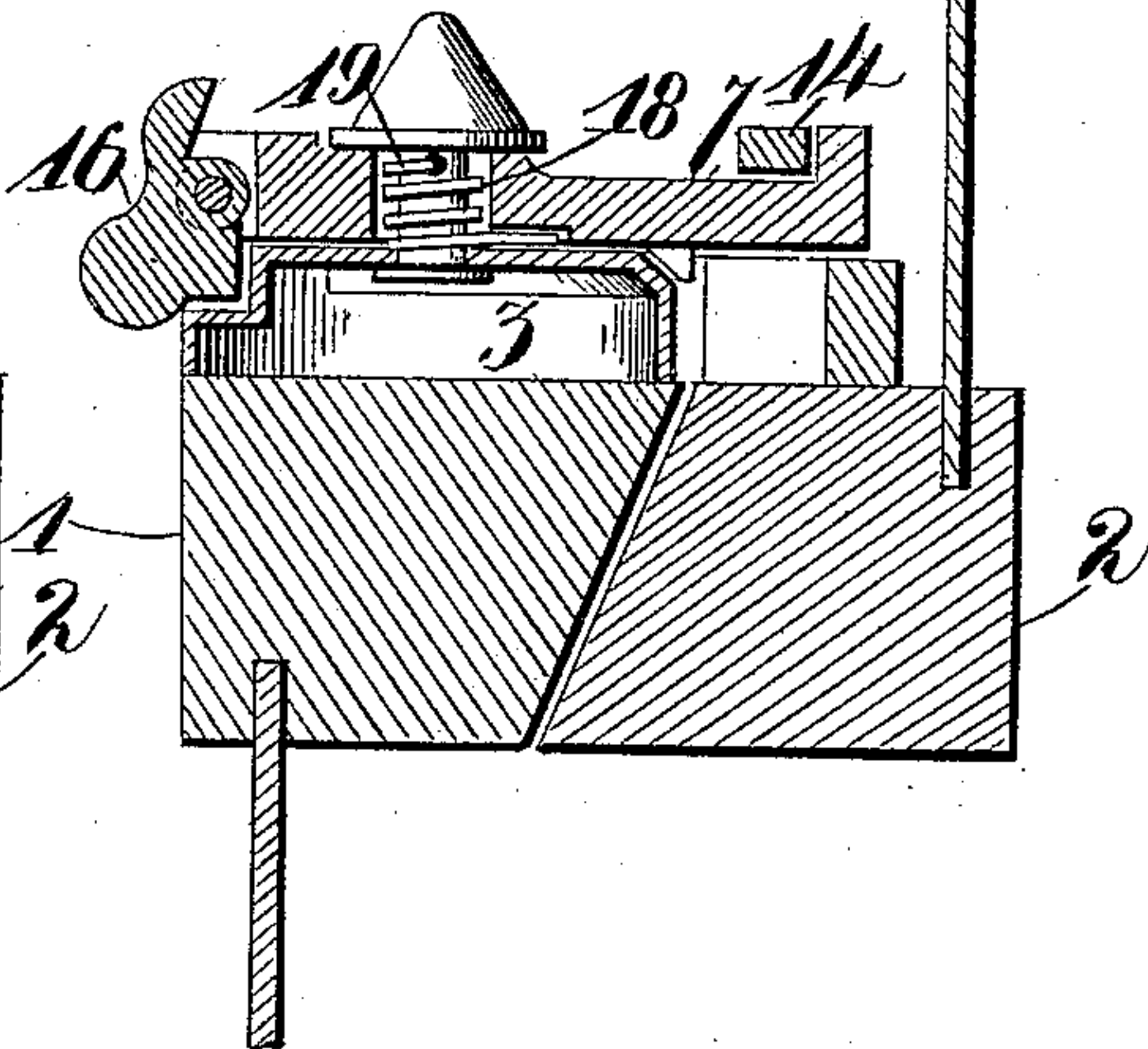
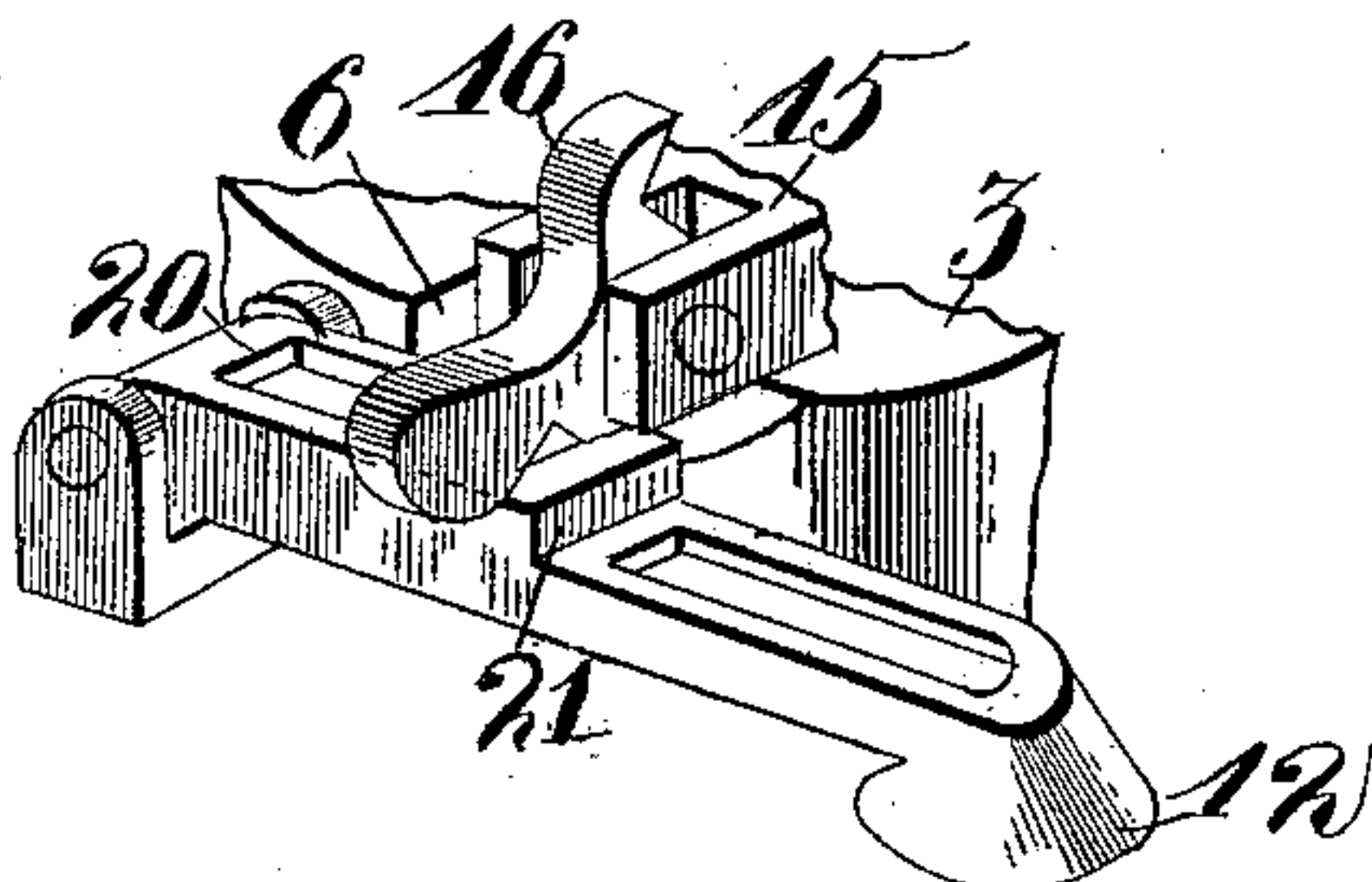


Fig. 4.



Witnesses

L. J. Heller.

Edward E. Longan

Inventor

By *his* **Monroe Sonnenschein.**
Attorneys
Higdon & Higdon

UNITED STATES PATENT OFFICE.

MONROE SONNESCHEIN, OF ST. LOUIS, MISSOURI.

FASTENER FOR THE MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 452,200, dated May 12, 1891.

Application filed February 9, 1891. Serial No. 380,765. (No model.)

To all whom it may concern:

Be it known that I, MONROE SONNESCHEIN, of the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Automatic Sash-Fasteners, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in automatic sash-fasteners; and it consists in the novel arrangement and combination of parts, as will be more fully hereinafter described, and designated in the claims.

In the drawings, Figure 1 is a top plan view of my complete invention, showing the two sashes in a locked position. Fig. 2 is a side elevation of the same. Fig. 3 is a longitudinal section of my invention, taken on the line *x x* of Fig. 1; and Fig. 4 is a perspective view of the tripping device detached, with parts broken away.

Referring to the drawings, 1 represents the lower sash, and 2 the upper, both of which are constructed after the usual manner.

The sash-fastener hereinafter described is especially adapted to be applied or attached to the horizontal meeting-rails of the sashes without in any way disfiguring or cutting them.

The object of my invention is to provide a lock that will fasten automatically when the lower sash 1 is pulled down or closed, and may be unlocked by hand in the usual manner, or perhaps by some other suitable mechanism.

3 indicates the casting or support to which the various parts of my invention are attached, and by means of which the same is secured to the horizontal meeting-rails of sash 1.

The casting 3 is provided with two peripheral depressions 5 and 6, the former of which is adapted to hold the rotating latch 7 in a locked position when the sashes are closed and in their normal position, and the latter thereof is to hold the said latch out of engagement with the hook formed on the upper sash 2 when it is desired to raise the lower sash.

To the casting 3 and formed integrally therewith is an arm or projection 8, the projecting end of which is provided with bearings 9, which bearings receive one end of a pivoted lever 10 and is secured thereto by means of a rivet or bolt 11. The opposite end

of the lever 10 is provided with a downward-extending projection 12, the lower surface of which is adapted to strike or come in contact with the upper surface of the meeting-rail of sash 2 when the sashes are in their normal position, the object of which will be hereinafter more fully stated. Said lever 10 is also provided with an elevation 20 and a shoulder 21, which shoulder is adapted to receive a gravity-dog 16, pivotally secured to spring-latch 7, in the operation of unlocking the latch 7; or, to be more specific, in the *modus operandi* of my invention, when it is desired to unlock the sash the operator should first disengage latch 7 and gravity-dog 16 and turn the same around, permitting gravity-dog 16 to fall in behind shoulder 21. When the lower sash is raised, lever 10 will fall by the action of gravity, thereby permitting the gravity-dog to engage in depression 6, formed in casting 3, and also the elevated portion 20, formed on lever 10, will be directly under gravity-dog 16 when the same is in engagement with depression 6, and then by lowering sash 1 projection 12, formed on lever 10, will strike the upper surface of the meeting-rail of sash 2, thereby throwing said lever upwardly, bringing the elevated portion 20, formed on the same, in contact with the gravity-dog 16, which will effectively disengage said dog, and the latch 7 will rotate around under its appropriate hook, thereby automatically locking the sashes.

The spring-latch 7 is of the ordinary construction, being provided with an arm 13 of sufficient length to pass under a hook 14, secured to the horizontal meeting-rail of sash 2 when said latch is in a locked position, as shown in Fig. 1. The opposite end of the spring-latch 7 is provided with a forked extension 15, and between the forks thereof said gravity-dog 16 is pivotally secured by means of a bolt or rivet 17, thereby allowing the same to be raised by the application of force and free to fall by the action of gravity.

18 represents a vertical shaft firmly secured to casting 3 at or about its center, and which provides a means for holding the latch 7 in position to the said casting.

Encircling the shaft 18 and between the head thereof and the casting 3 is a spiral spring 19, one end of which is fastened to the

vertical shaft and the opposite end thereof embedded in a recess formed in the lower surface of latch 7, the object of which construction and the employment of said spring is to
5 cause the spring-latch 7, when disengaged and in an unlocked position, to be automatically drawn into a locked position, as shown in Fig. 1, throwing the arm 13 under the hook 14.

Having fully described my invention, what
10 I claim is—

1. An automatic sash-fastener consisting of a horizontal rotating spring-latch, a gravity-dog for holding it in two positions, and means whereby the said dog is automatically elevated when the lower sash is entirely closed,
15 substantially as set forth.

2. An automatic sash-fastener consisting of a horizontally-rotating spring-latch, a gravity-dog pivotally secured to the same and movable therewith, a lever 10, adapted to elevate
20 the said dog and disengage the same from depression 6, and a hook 14 for receiving said

latch after the disengagement of said dog, substantially as set forth.

3. In an automatic sash-fastener, the combination of casting 3, a spring-latch, an arm
25 or projection 8, formed integral with said casting, a lever 10, pivotally secured thereto, and a gravity-dog 16, adapted to be received in peripheral depressions 5 and 6, formed in the
30 said casting, substantially as set forth.

4. In an automatic sash-fastener, the combination of a spring-latch 7, provided with a
forked arm 15, a gravity-dog 16, pivotally secured therein, a casting 3, to which said
35 spring-latch is attached, and the lever 10, adapted to disengage said dog, substantially as set forth.

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

MONROE SONNESCHEIN.

Witnesses:

BENJ. J. KLENE,
C. F. KELLER.