

No. 640,403.

Patented Jan. 2, 1900.

G. R. McCHESNEY.

SASH FASTENER.

(Application filed May 3, 1899.)

(No Model.)

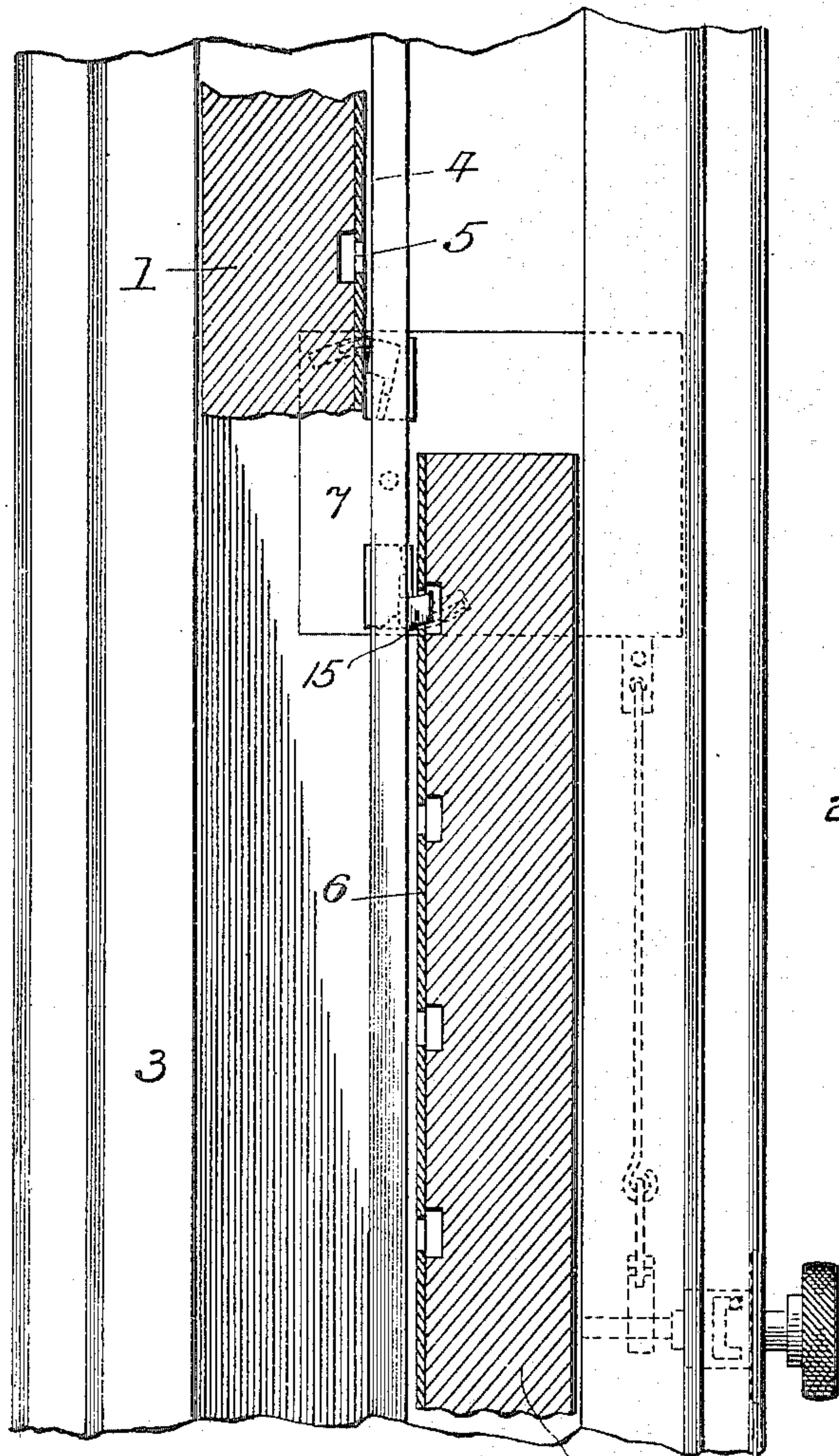


Fig. 1.

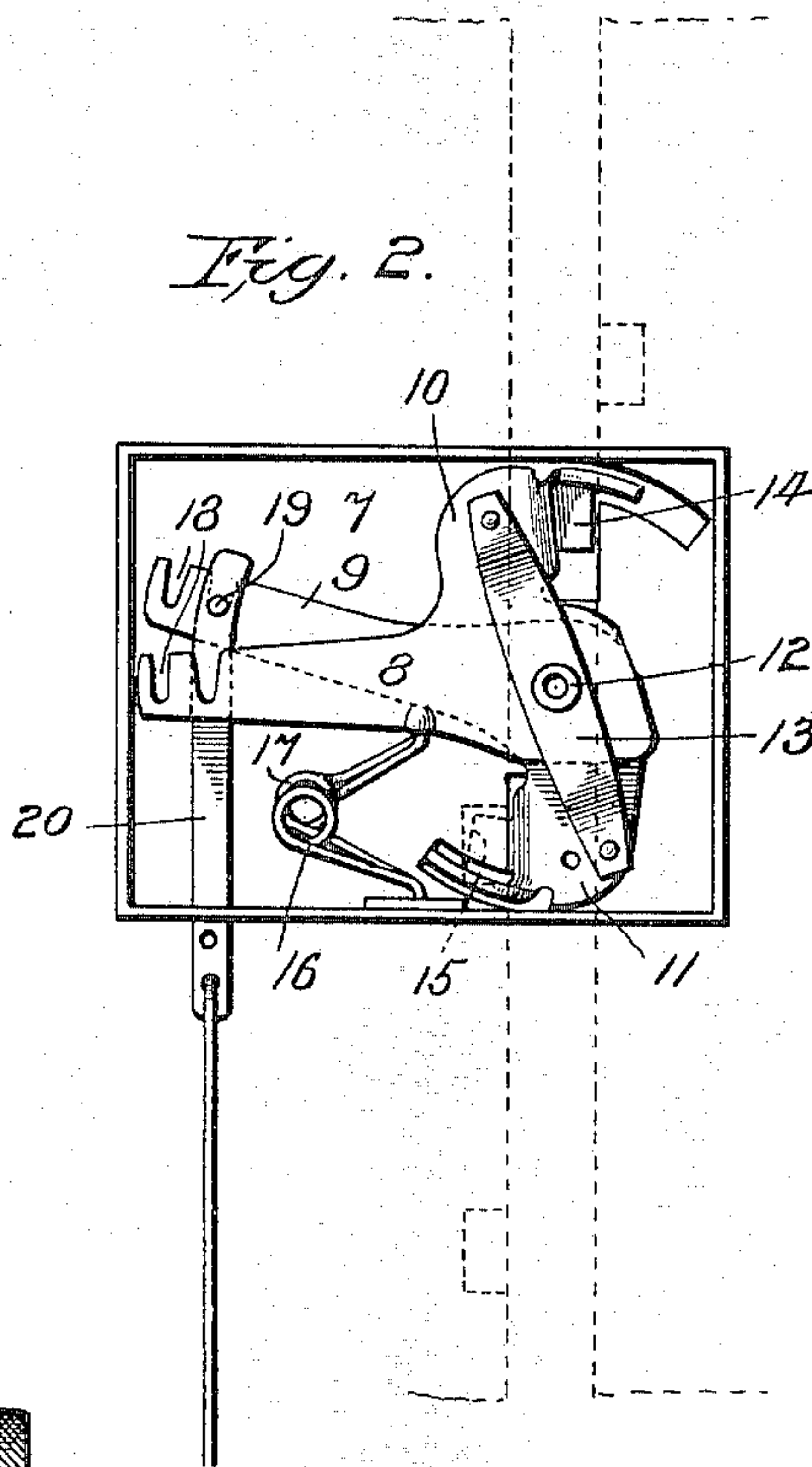


Fig. 2.

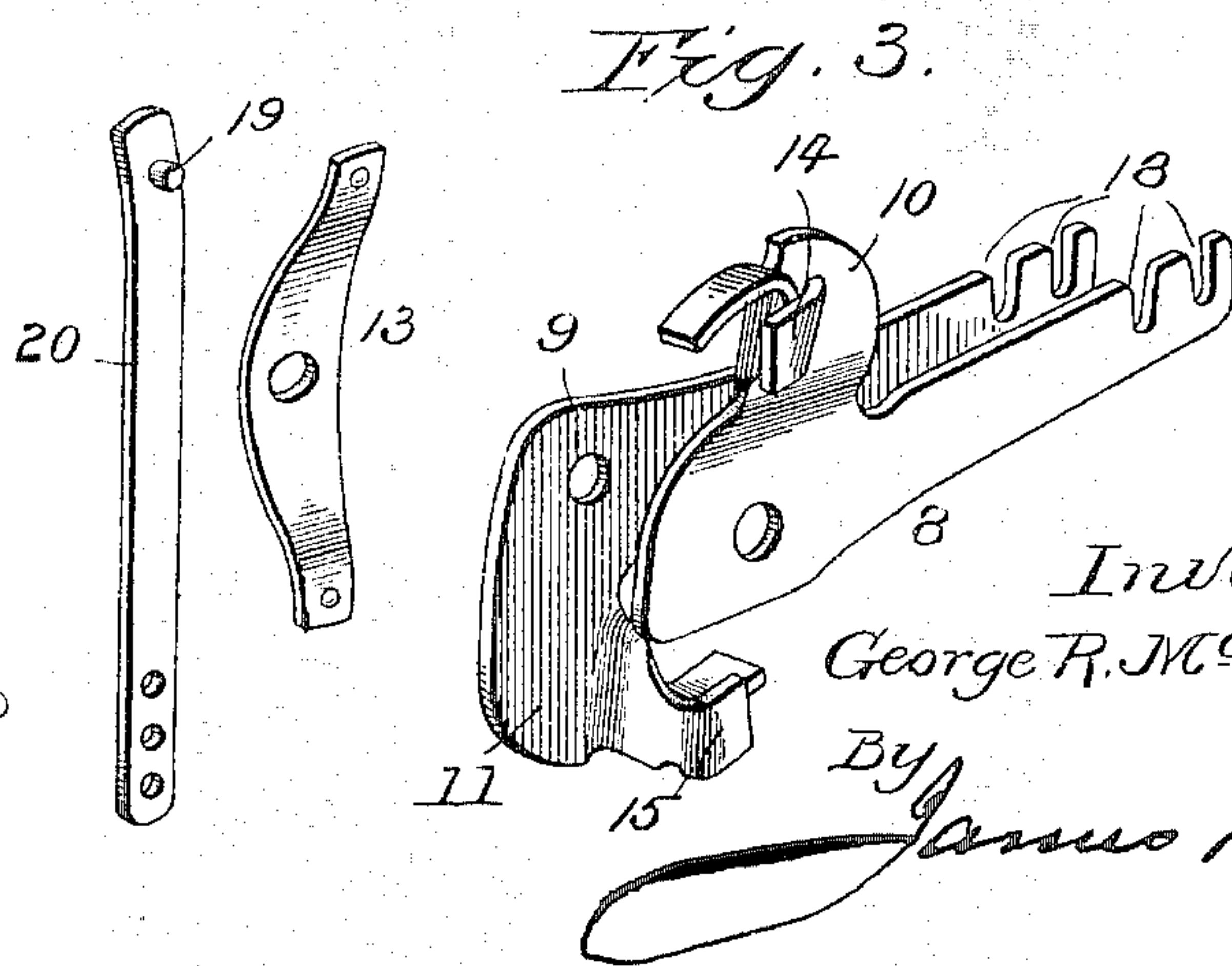


Fig. 3.

Witnesses:
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UNITED STATES PATENT OFFICE.

GEORGE R. MCCIESNEY, OF NEW YORK, N. Y.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 640,403, dated January 2, 1900.

Application filed May 3, 1899. Serial No. 715,461. (No model.)

To all whom it may concern:

Be it known that I, GEORGE R. MCCIESNEY, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented new and useful Improvements in Sash-Fasteners, of which the following is a specification.

My invention relates to an improvement in sash-fasteners of the kind described and claimed in my application, Serial No. 697,876, filed November 30, 1898. In my said application I have shown a lock having a single lever-arm provided with an integral locking-arm, said locking-arm having hooks extending from opposite sides to engage in apertures in locking-strips secured along the edges of the sashes. In such a construction it is necessary that both of the sashes be placed in a position in which an aperture in each locking-strip registers with or is opposite each hook, as otherwise if one hook is held out of an aperture it will prevent the other hook from entering.

The special object of the present invention is to improve the construction of lock described in my said application; and such improvement consists generally in providing two lever-arms, each of which carries a locking-arm with a hook, said lever-arms working separately and independently of each other, so that whichever hook comes opposite an aperture in a locking-strip may enter it to lock its sash in position independently and irrespective of the position of the other hook.

Other objects of the invention relate to certain details of construction and operation of parts, all of which will more fully hereinafter appear.

I have illustrated my invention in the accompanying drawings, in which—

Figure 1 is a sectional elevation through a portion of two sashes, showing my invention applied thereto. Fig. 2 is a view of the interior of the lock, the face-plate being removed, and showing one hook in engagement with and the other hook disengaged from the respective locking-strips, the sashes being indicated by dotted lines. Fig. 3 is a perspective view of the main parts of the lock, showing them detached.

The reference-numerals 1 and 2 indicate, respectively, the upper and lower window-sashes, and 3 indicates the window-sash frame.

Secured along the inside face of one of the outer rails of sash 1 and extending from top to bottom thereof is the locking-strip 4, which lies flush with the surface of the rail and is provided at equal intervals with a series of oblong apertures 5. A similar strip 6 is provided along the outside face of the corresponding rail of the lower sash. Secured in the frame 3, at a height corresponding to that at which the horizontal rails of the window-sashes meet, is the locking mechanism, the casing of which is indicated by the numeral 7. Said casing is of rectangular shape, as shown, and is preferably made of a single piece of metal having its edges turned inward at right angles to its body portion to afford flanges upon which a face-plate may be secured in order to inclose the mechanism in the ordinary manner, and said casing is secured in any preferred manner within the frame to lie flush with the surface thereof. The main locking members comprise two lever-arms 8 9, each of which has at its outer end an integral right-angular extension forming a locking-arm, said locking-arms being denoted, respectively, by the numerals 10 11. Each of the combined lever and locking arms is loosely mounted on a stud 12 and is adapted to slide thereon under the control of a leaf-spring 13, as in my device referred to. When mounted in the casing, the lever-arms 8 9 lie one over the other and extend in parallel lines, while the locking-arms 10 11 extend in opposite directions and at their outer ends are each provided with a locking-hook 14 15, respectively, which locking-hooks project through the casing and are adapted to engage the locking-strips in the same manner as described in my application referred to. Said lever-arms are controlled by two similar springs 16 17 and at their ends opposite the locking-arms are provided on their upper sides with two or more coincident slots or recesses 18, which are for the purpose of receiving a stud 19, projecting from opposite sides of an operating-rod 20, which rod is flat and lies between the lever-arms 8 9. The operating-rod 20 is connected with a knob or other device for operating the lock, such as described in my prior application and which need not be described in detail herein. Said operating-rod may have its stud in engagement with one or the other set

of recesses 18, according to the width of the frame.

In operation it will be seen that both lever-arms may be operated simultaneously by the rod 20 to unlock the sash and that when the lock is released either locking-hook is free to engage in an aperture in one of the locking-strips without relation to the position of the other locking-hook with respect to the apertures in the other locking-strip.

Having thus fully described my invention, what I claim as new is—

1. In a sash-fastener, the combination with an upper and lower sash having on opposing side rails apertured locking-strips, of a lock seated in the window-sash frame at the meeting-rails of said sashes, said lock comprising two pivoted lever-arms each of which has a locking-arm, locking-hooks extending from said locking-arms and adapted to engage in the apertures of the respective locking-strips, and means for operating said lever-arms, substantially as described.

2. In a sash-fastener, the combination with an upper and lower sash having on opposing side rails apertured locking-strips, of a lock seated in the window-sash frame at the meeting-rails of said sashes, said lock comprising two pivoted lever-arms having independent movement and each of which has a locking-arm, locking-hooks extending from said locking-arms and adapted to engage in the apertures of the respective locking-strips, and means for simultaneously operating said lever-arms, substantially as described.

3. In a sash-fastener, the combination with an upper and lower sash having on opposing side rails apertured locking-strips, of a lock seated in the window-sash frame at the meeting-rails of said sashes, said lock comprising a casing having a stud, two spring-controlled lever-arms slidably and revolubly mounted on said stud and having independent movement and each of which has a locking-arm, locking-hooks extending from said locking-arms

and adapted to engage in the apertures of the respective locking-strips, and means for operating said lever-arms, substantially as described.

4. In a sash-fastener, the combination with an upper and lower sash having on opposing side rails apertured locking-strips, of a lock seated in the window-sash frame at the meeting-rails of said sashes, said lock comprising two pivoted lever-arms having independent movement, and each of which has at one end a locking-arm, and near its opposite end is provided on its upper side with one or more recesses, the recesses in said lever-arms aligning, locking-hooks extending from said locking-arms and adapted to engage in the apertures of the respective locking-strips, and an operating-rod having a stud engaging in coincident recesses of said lever-arms, substantially as described.

5. A sash-fastener comprising a casing having apertures and a stud, two spring-controlled lever-arms independently mounted on said stud and each having a locking-arm provided with a locking-hook projecting through an aperture in the casing, and an operating-rod detachably engaging both of said lever-arms, substantially as described.

6. A sash-fastener comprising a casing having apertures and a stud, two spring-controlled lever-arms slidably and revolubly mounted on said stud and having independent movement and each having a locking-arm provided with a locking-hook projecting through an aperture in the casing, and an operating-rod detachably engaging both of said lever-arms, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

GEORGE R. MCCHESENEY.

Witnesses:

GEO. W. REA,

BRUCE S. ELLIOTT.