

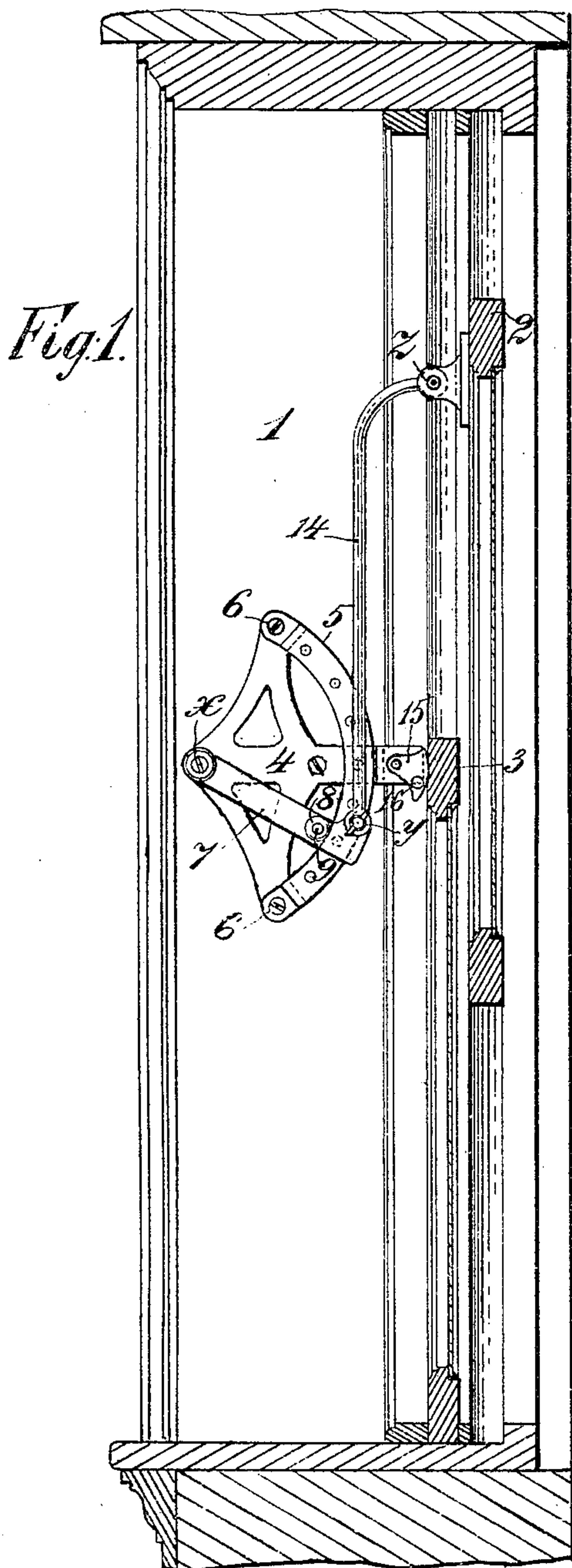
No. 824,583.

PATENTED JUNE 26, 1906.

W. R. RENARD.
SASH OPERATING AND LOCKING DEVICE.

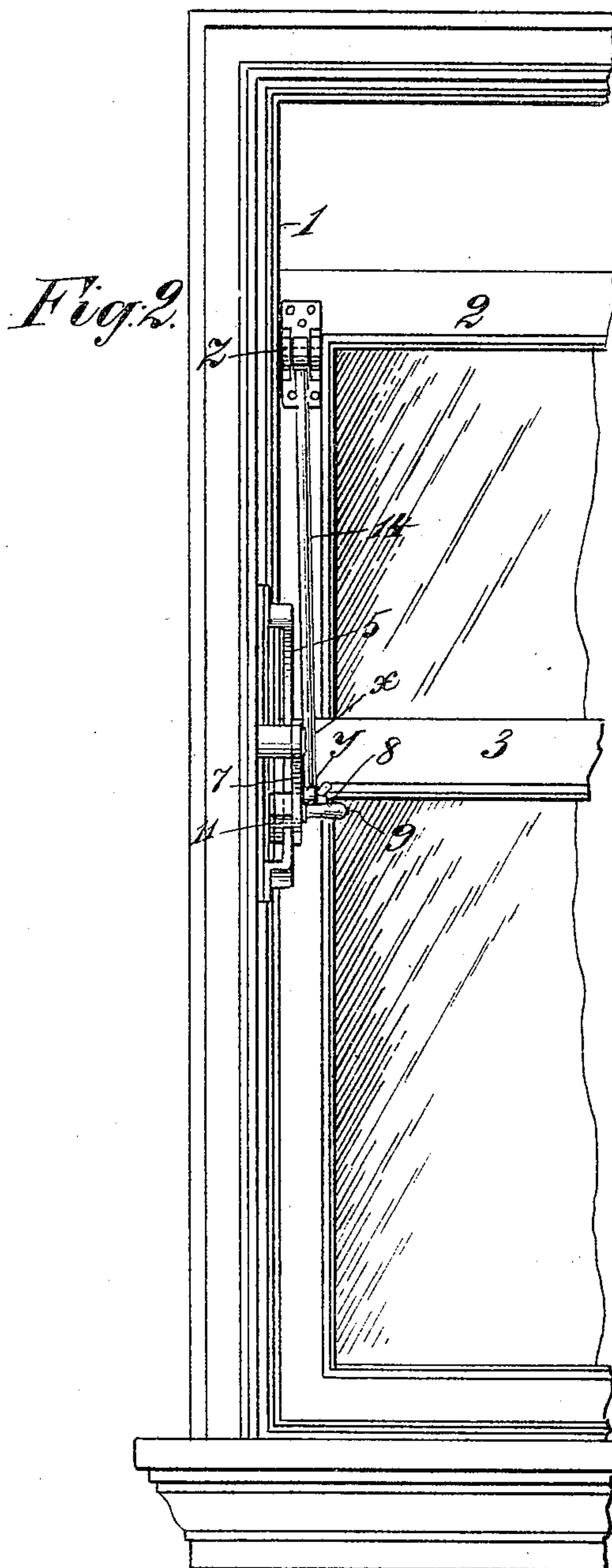
APPLICATION FILED FEB. 15, 1906.

2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.

Fig. 4.

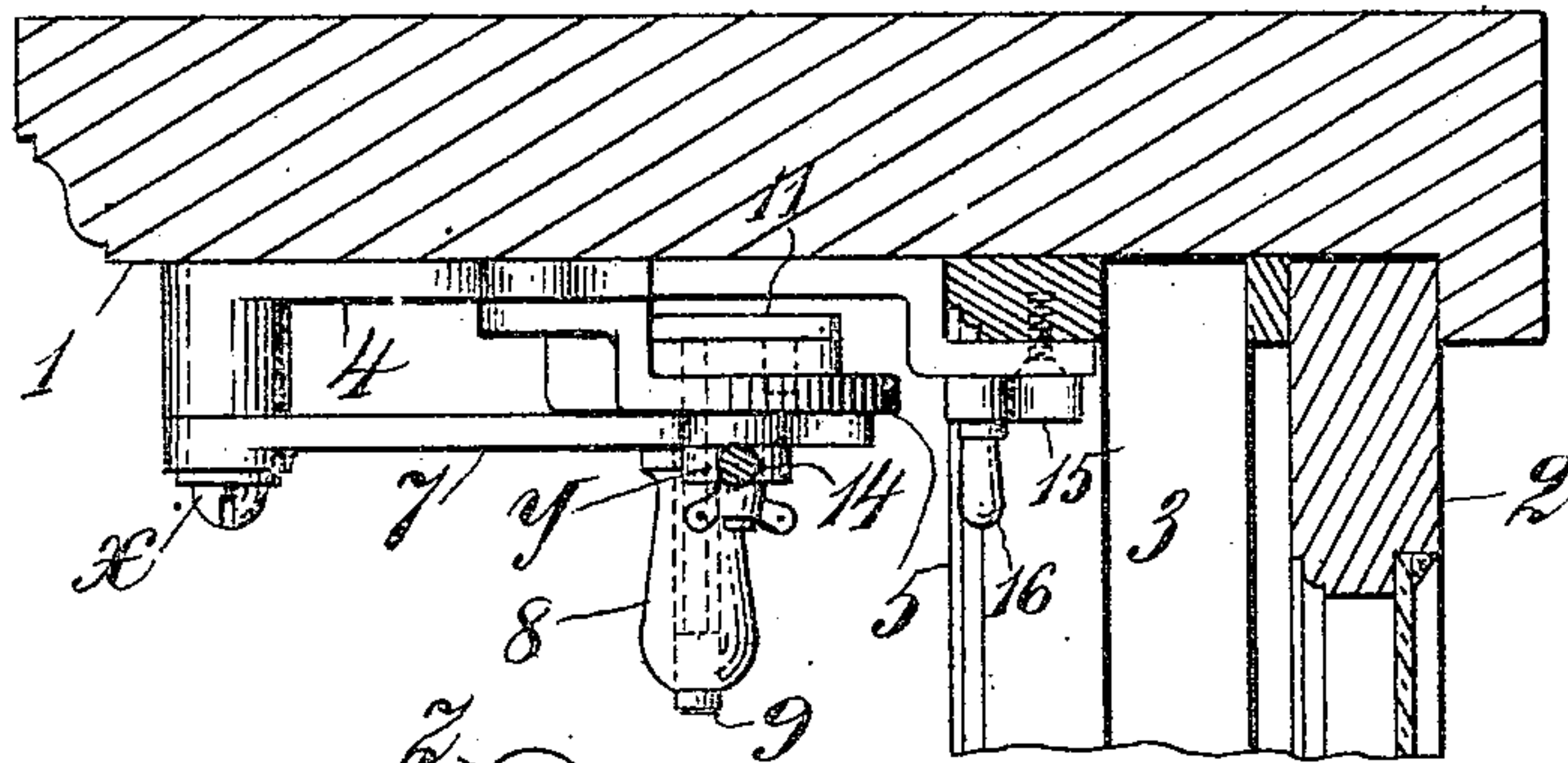


Fig. 3.

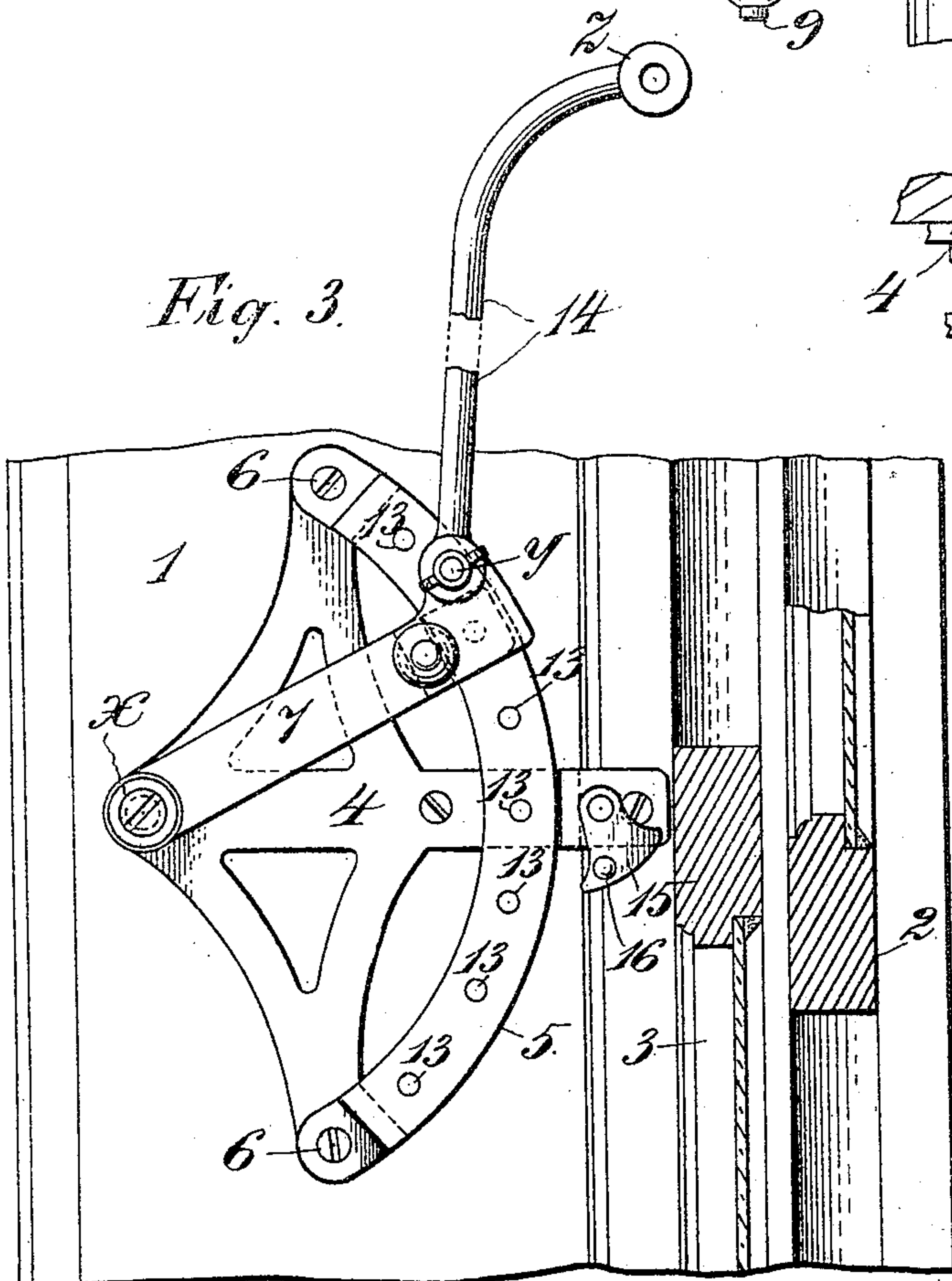


Fig. 5.

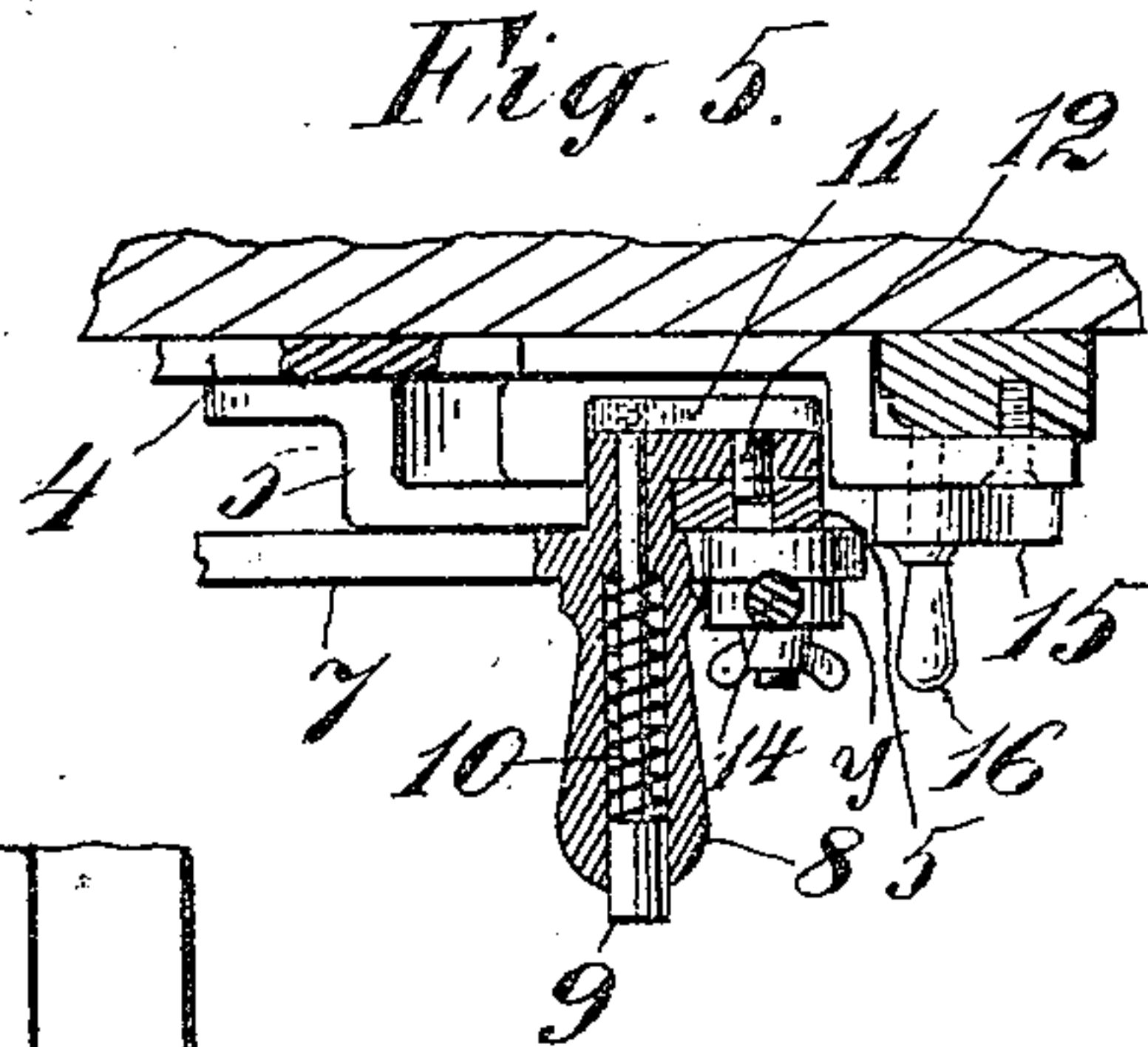
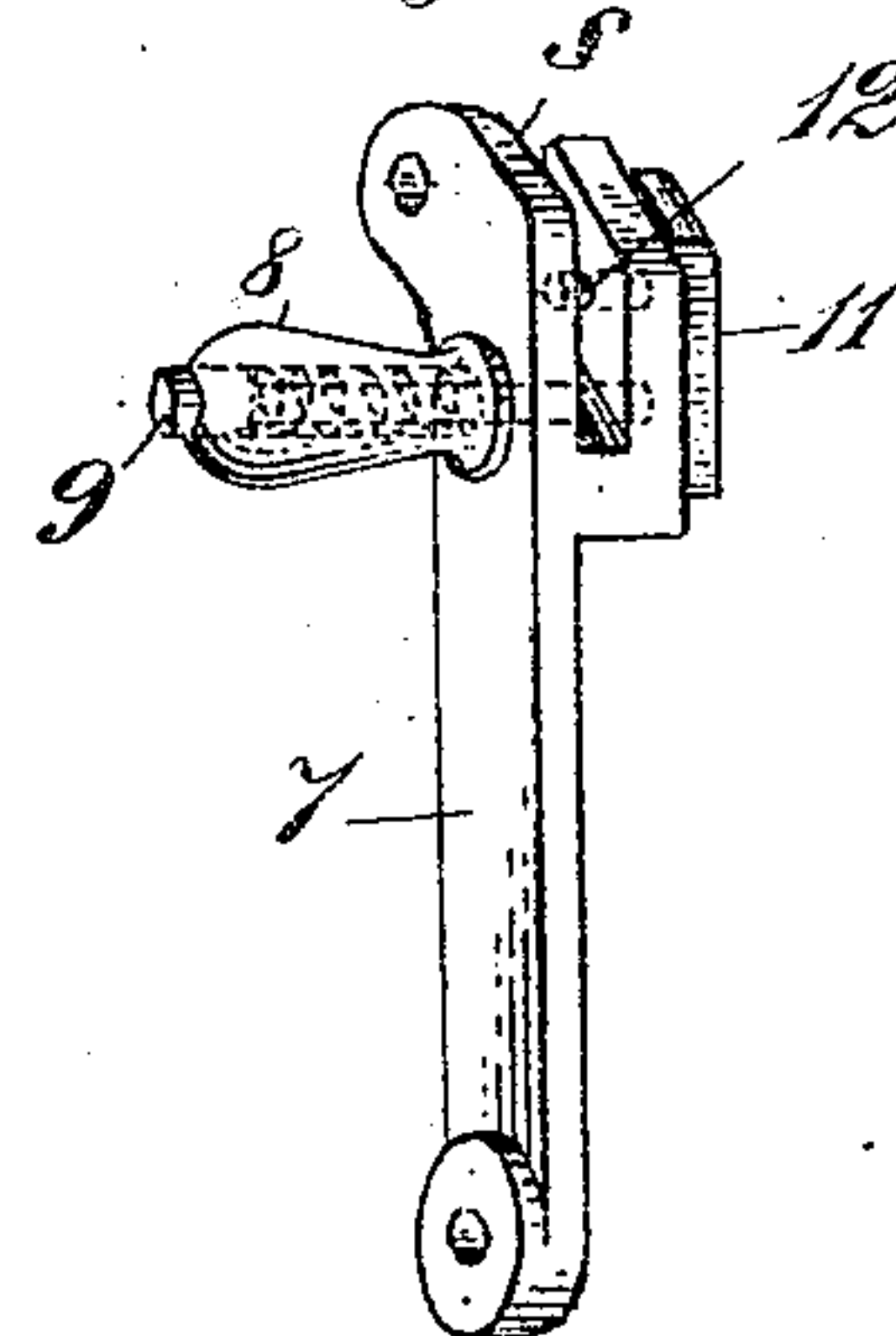


Fig. 6.



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SASH OPERATING AND LOCKING DEVICE.

No. 824,583.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed February 15, 1906. Serial No. 301,193.

To all whom it may concern:

Be it known that I, WILHELMINE ROSAUER RENARD, a subject of the German Emperor, residing in the city, county, and State of New York, have invented certain new and useful Improvements in Sash Operating and Locking Devices, of which the following is a specification.

This invention relates to devices for locking and operating sashes; and it comprises a device for operating the upper sash of a window and for locking it either open or closed independently of the lower sash, with means also for locking the lower sash when closed.

In the accompanying drawings, which illustrate an embodiment of the invention, Figure 1 is a side elevation of the device shown as mounted on the jamb or inner face of the window-casing, and Fig. 2 is a front elevation of the same. These views are on a relatively small scale. Fig. 3 is a side elevation of the main part of the device on a larger scale. Fig. 4 is a plan of the same. Fig. 5 is a fragmentary plan, partly broken away. Fig. 6 is a perspective view of the lever, showing its under side.

1 designates the casing of the window-frame, on the jamb of which the locking and operating device is mounted.

2 designates the upper sash, and 3 the lower sash, of the window, both mounted slidably in the usual way. They may be counterbalanced sash.

The device which forms the object of the present invention comprises a bracket 4, secured by screws to the jamb of the casing, and 5 a curved segment also secured to said jamb. As herein shown, the bracket and segment are so shaped that two screws 6 serve to secure both together to the window-casing, the ends of the segment resting on the respective wings of the bracket. This enables the two parts to be set accurately with respect to each other.

The curve of the segment 5 is drawn from a center at *x* on the bracket, and at this point is pivotally mounted an operating-lever 7. This lever has a fork or keeper-slot *s* at its free end, Fig. 6, which engages the fixed segment 5, and plays over the latter when the lever is moved up and down by turning it about the pivot at *x*. On the lever 7 is a handle 8, in which plays a spring push-pin 9. This pin is embraced by a suitable coiled spring 10, Fig. 5, and to its inner end is secured an arm 11, in which is fixed a bolt 12,

the end of which is adapted to play over the face of the segment 5 and when permitted to engage one of a plurality of holes or bolt-sockets 13 in and distributed along the segment. The spring 10 tends to effect the engagement of this bolt automatically with the segment, and the disengagement is effected by the operator pressing with his thumb or hand on the push-pin 9. The lever 7 is coupled to the upper sash 2 by a suitable rod 14, the latter being pivotally connected to the lever at *y* and to the sash at *z*.

So far as described the operation is as follows: Supposing the upper sash to be closed and locked through the engagement of the bolt 12 with the upper hole or socket 13 in the segment 5 and it is desired to lower the sash a little and lock it open, the operator presses in the push-pin 9 to unlock the lever 7 from the segment and draws down the sash by means of the lever 7 and the coupling-rod 14, allowing the bolt 12 to enter that socket in the segment which may prove to be nearest to the bolt when the sash is lowered to the desired extent. The operation of closing the sash will be a mere reversal of that described.

The lower sash 3 is not coupled to the upper sash, and it may be locked against raising by means now to be described.

On the inner end of the bracket 4, near the stile of the lower sash, is pivotally mounted a cam-shaped shoe 15, which hangs normally suspended by gravity, Fig. 3, and is provided with a handle 16. When the lower sash is closed down tight, this shoe is turned upward about its pivot, so as to wedge against the face of the sash. Under these conditions any attempt to raise the lower sash will be frustrated, as such a movement of the sash would only tend to wedge it the tighter.

The upper sash may be disengaged from the operating and locking device by uncoupling its lower end from the stud on the lever and swinging the rod to one side. The nut at the coupling *y* is removed, and the looseness of the coupling *z* where the rod is connected to the upper sash will permit of this.

It is important to lock the lower sash against opening when the upper sash is locked partly open, as will be readily understood, and it is important also that the locking and shifting of the upper sash shall be independent of the movement of the lower sash.

The object is to provide a simple and inexpensive device which may be assembled

and put on the window by any person. The rod 14 need not be of any particular length, as the device can be set higher or lower, as desired, so long as it is not above the top rail of the lower sash.

The arm 11 may of course be integral with the push-pin and also with the bolt 12. This latter plays through a hole in the check of the lever 7 at one side of the slot *s* and is guided therein.

Having thus described my invention, I claim—

1. A device for the purpose specified, comprising a bracket to be secured to the window-casing, a curved segment also to be fixed to the casing and provided with a plurality of bolt-sockets, a lever pivotally mounted on the bracket and provided with a keeper-slot engaging the said fixed segment and adapted to play over the latter, said lever being provided with a handle, a bolt to engage the sockets in the segment, and a spring push-pin for operating said bolt, and a coupling-rod for connecting the lever with the upper sash.

2. A device for the purpose specified, comprising a bracket and curved segment fixed to the window-casing, a lever mounted pivotally on the bracket and provided with

means for locking it to the segment, a coupling-rod connecting the free end of the lever with the upper sash of the window, and means carried by the bracket for locking the lower sash.

3. In a device for the purpose specified, the combination with a bracket 4, mounted on the casing of the window, a curved segment 5, also secured to the casing and provided with a plurality of bolt-sockets 13, the lever 7 pivotally mounted at *x* on said bracket and provided at its free end with a keeper-slot *s* which engages the segment, and with a handle 8, a spring push-pin in said handle, an arm 11 carried by said push-pin, a bolt 12, carried by said arm and adapted to be moved by the push-pin into and out of engagement with the sockets in the segment, a rod 14, which couples the said lever with the upper sash, and means, carried by the bracket for locking the lower sash.

In witness whereof I have hereunto signed my name, this 14th day of February, 1906, in the presence of two subscribing witnesses.

WILHELMINE ROSAUER RENARD.

Witnesses:

HENRY CONNETT,
WILLIAM J. FIRTH.