

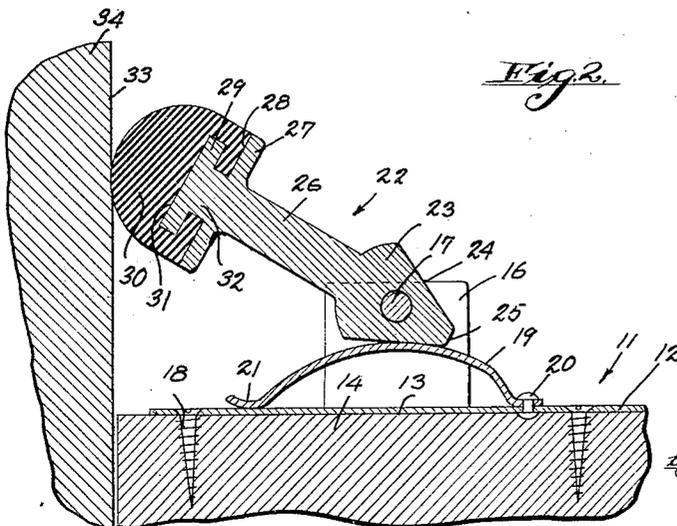
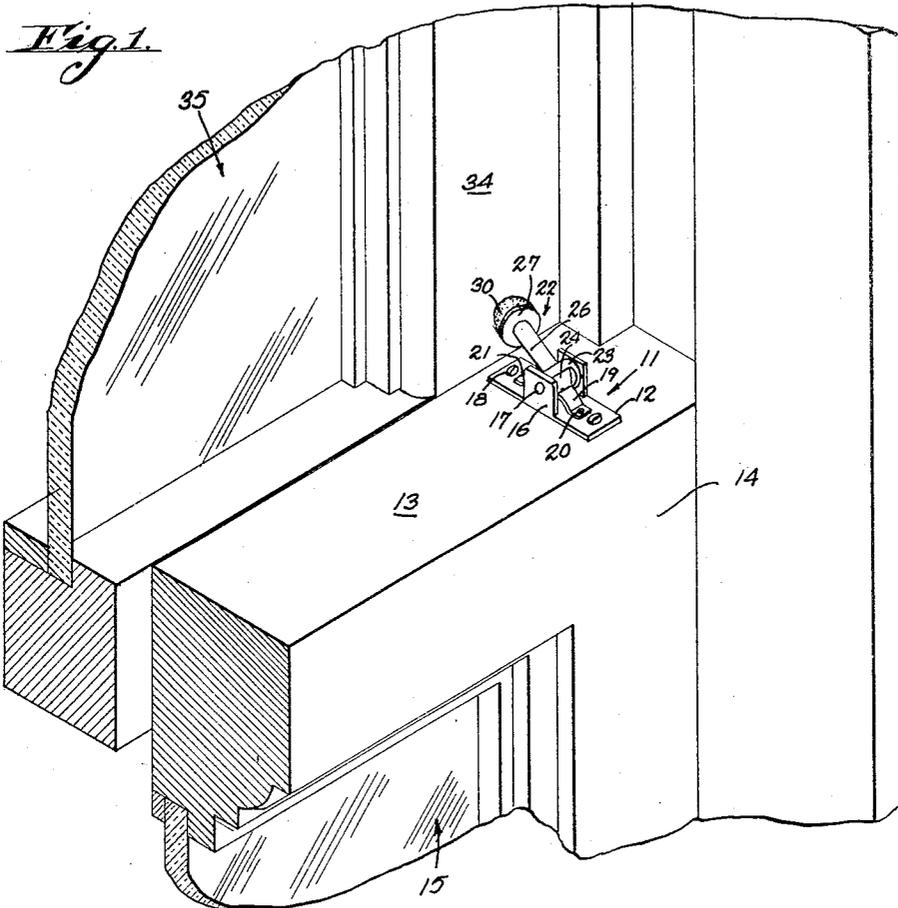
Jan. 19, 1932.

V. HANNON

1,841,890

WINDOW LOCK

Filed Dec. 18, 1930



Inventor
Victor Hannon
by Hazard and
Miller
Attorneys

UNITED STATES PATENT OFFICE

VICTOR HANNON, OF LOS ANGELES, CALIFORNIA

WINDOW LOCK

Application filed December 18, 1930. Serial No. 503,243.

My invention relates to a burglar proof window lock of the type in which a locking lever or latch is pivotally connected to one sash and has an operative end having a frictional engagement with the other sash, these being for windows having sashes which move vertically and in which the device prevents the relative sliding movement of the sashes.

My invention also pertains to a type of device which may have a hinge connection to the upper rail of the lower sash and having the friction end bearing against the vertical rail of the upper sash.

In this type of construction, an object of my invention is the provision of a resilient engaging device for cooperating with the latching lever to press the operative end of such lever tightly against the other sash and, also, this resilient or spring device being operative to retain the end of the lever, which is designed to contact with the opposite sash, out of engagement therewith when it is desired to have the device in the inoperative position to allow free sliding movement of the sash.

Another object and feature of my invention is providing a latching lever with a resilient operating end, such end, preferably, being formed of rubber and thereby having a frictional engagement with the sash with which it contacts sufficient to give a tight grip, the grip increasing as attempt is made to remove the sashes one relative to the other.

My invention is illustrated in connection with the accompanying drawings, in which:

Fig. 1 is a perspective view showing part of a window frame with an upper and lower sash and my window lock mounted in place and in the operative position.

Fig. 2 is a vertical section through the device in its operative position.

In constructing my invention I employ a bracket 11 which is illustrated as having a metal plate 12 to be attached to the upper surface 13 of the upper rail 14 of the lower sash 15. Extending upwardly from the plate there are a pair of ears 16 with a pivot pin 17 extending therethrough. The bracket is secured to the sash by means of wood screws 18. A leaf spring 19 is secured to the plate 12 by

means of a rivet 20. The other end 21 of the spring is adapted to ride and slide on the upper surface of the plate 12 and this spring passes below the pivot pin 17. The latching lever or arm 22 has a hub 23 thru which the pivot pin 17 extends. This hub has two flattened sides 24 converging toward the lower end 25, such end being rounded slightly. A round rod 26 forms part of this lever and extends outwardly from the hub and near its outer end carries a shoulder plate 27, this plate having a flat bearing surface 28. The rod extends beyond this plate 27 and has a head 29 thereon. A rubber buffer contact member 30 is secured on the outer end of the rod and on the head, this buffer having a socket 31 of the proper shape to accommodate the head 29 and the outwardly extending part 32 of the rod beyond the plate 27. This rubber buffer bears against the flat surface 29 and is preferably cast in place.

The buffer engages the vertical surface 33 of the side rail 34 of the upper sash 35. When the device is in its operative position to hold the sashes from relative movement as when the window is closed, as illustrated in Fig. 1, the spring 19 bears on one of the flat converging surfaces 24, the main pressure of the spring tending to rotate the rod 26 downwardly and thus bring the buffer end 30 into a close contact with the vertical surface 23 of the side rail of the upper sash. If an attempt is made, therefore, to raise the lower sash or to lower the upper sash it causes the buffer 30 to bear more tightly against the upper sash and resist the relative movement of the two sashes. Therefore, the device acts as a window lock to prevent opening the window. When it is desired to shift the lock to the inoperative position the upper end having the buffer 30 is rotated on the pivot pin 17. This causes the lower curved end 25 to bear on the spring 19, pressing and distorting this spring sufficiently to allow the other sloping surface 24 to come into contact with the spring, and in which case the buffer 30 is directed away from the upper sash. This permits raising and lowering of the sash without any interference.

It is manifest that my device will be operative if the window is only opened part distance and the window lock will prevent further opening but will readily allow closing of the window, as in this latter case the buffer may readily slide downwardly on the side rail of the upper sash.

The hub structure may be considered as having cam surfaces. These cam surfaces are engaged by the flat spring, therefore, when the latching lever is swung on its pivot the cam surfaces tend to either thrust the buffer 30 against the sash or away from the sash.

Various changes may be made in the details of construction without departing from the spirit or scope of the invention as defined by the appended claim.

I claim:

A window lock comprising in combination a bracket having a plate with means to secure the same to the top rail of the lower sash, said plate having a pair of ears with a pivot pin extending therethrough, a latching lever having a hub with opposite cam surfaces converging toward its lower end, a leaf spring having one end secured to the plate and the other bearing thereon, the said spring passing between the hub and the plate and engaging the cam surfaces of the latching lever, the said lever having a rod extending from the hub with a buffer on the outer end and adapted to engage the second sash, the said rod having a flat plate transverse to the rod, an extension beyond said plate with an enlarged head, and the resilient buffer having a rounded outer end and a flat end to engage the said plate and having a socket to accommodate the extension of the rod and of the head on such rod.

In testimony whereof I have signed my name to this specification.

VICTOR HANNON.

45

50

55

60

65