

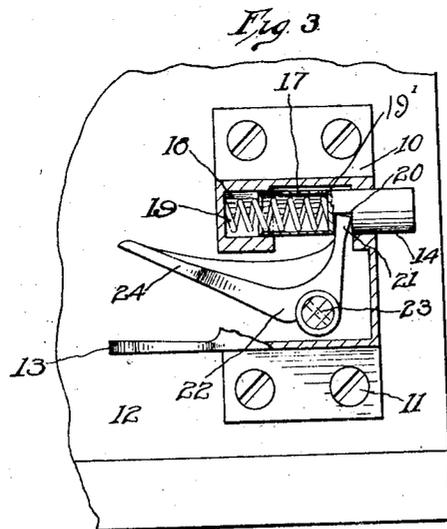
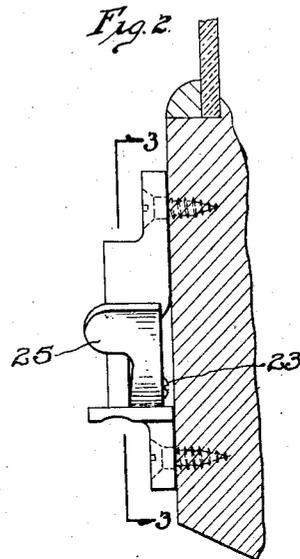
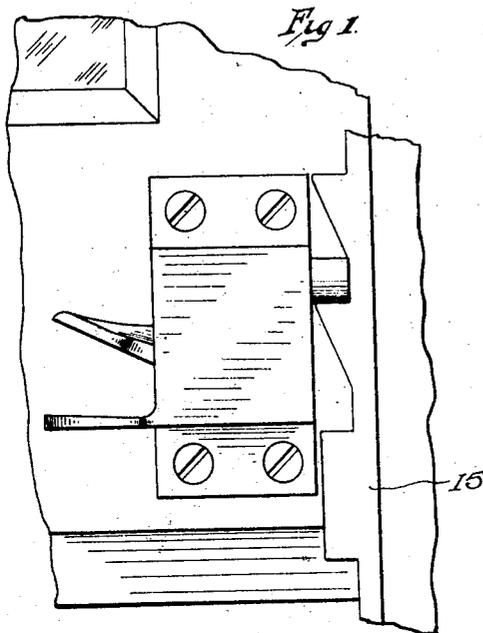
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SASH LATCH

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# UNITED STATES PATENT OFFICE.

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## SASH LATCH.

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The invention relates to latches for window sashes, or the like, and has as its principal object to provide a simple and durable latch which is easily manufactured and does not readily get out of order. A further object is to provide a latch of the above character which shall have the fewest possible projecting parts, such as would be likely to catch in the window curtain or other loose objects as the sash is raised or lowered.

In the accompanying drawings:

Fig. 1 is a side view of the latch attached to a window sash, a portion of which is shown fragmentarily, together with a portion of the window frame;

Fig. 2 is a rear end view of the latch, the window sash to which it is attached being shown in section; and

Fig. 3 shows the latch partly in side elevation and partly in section, on the line 3—3 of Fig. 2.

The latch comprises a hollow casing 10, here shown as attached by means of screws 11 to a vertically sliding sash 12, and provided with the usual rearwardly projecting lip 13, for raising and lowering the sash. Housed within the casing 10 and normally projecting from the front end thereof is a spring-pressed plunger 14, which cooperates with a rack, as 15, formed on the window frame, thus enabling the sash to be secured in any desired position.

The rear portion 17 of the plunger 14 is hollow, and is slidable in a cylindrical housing 18, preferably cast integral with the casing 10. A compression spring 19, for holding the plunger 14 in engagement with the rack 15, is contained within the housing 18 and the hollow rear portion 17 of the plunger 14, its rear end bearing against the rear of the casing and its forward end bearing against the plunger, as at 19'. By having the spring thus completely housed there is no possibility of its accidentally slipping out of place. The plunger 14 is notched, as at 20, to permit of its being retracted by an arm 21 of a bell-crank 22, which is pivoted in the casing 10 and held in place, as by a screw 23. The other arm 24 of the bell crank projects through the rear of the casing, and its end is flattened to form a lip 25, similar to the lip 13. By depressing the lip 25

against the lip 13 the plunger 14 is retracted, and its hollow rear portion telescopes within the housing 18.

It has been found in practice that the improved latch having the spring completely housed is much more durable than the latches previously used. It will be further noted that the plunger 14, when retracted, does not extend through the rear of the casing, as in the ordinary type of latch, and there is, therefore, no possibility of catching the same in the window curtain or other loose objects, when the sash is raised or lowered.

Among the advantages secured by the described construction is that the chamber of the housing 18 and the recess 17 in the bolt forms a convenient place for the insertion of a lubricant, preferably grease, which, being inclosed, is protected from dust, as the bolt makes a snug fit with the chamber of the housing. The grease makes it feasible to form the spring of piano wire, as it coats the wire and prevents corrosion. Heretofore in devices of this character there has been no means for applying a lubricant to the spring, and consequently it has been necessary to form the wire of non-corrosive material, which soon loses its elasticity.

A further advantage of the construction is that the bolt is firmly supported laterally adjacent both ends. Sash latches, particularly when employed on railway cars, are subjected to very hard usage. Frequently the sash will be allowed to drop, and the latch may be caught in one of the stop shoulders before the sash reaches the bottom of the casing, thereby putting great strain on the bolt. In former practice these latches were frequently broken in this manner. The latch of this application possesses great strength to resist shocks of this character.

I claim as my invention—

In a sash latch, a casing, a housing formed by said casing and provided with a bore having its inner end closed and its outer end opened, said housing provided with a notch in the wall of said bore intermediate the ends thereof, said casing having an opening in its rear wall, a lip member extending rearwardly adjacent said opening, a bolt slidably

mounted in said bore and forming a close fit therein, said bolt extending across said notch and forming with the inner end of said bore a closed chamber in all positions of said bolt during its operation, for retaining a lubricant therein, a light spring in said chamber in engagement with said bolt, and means having one end extending through said notch for operating said bolt and its other end extending through said opening adjacent to, but in spaced relation to, said lip member. 10

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