(No Model.)

O. K. GARDNER.

SASH LOCK, LIFT, AND BALANCE.

No. 522,889. Patented July 10, 1894.

Fig: 1.

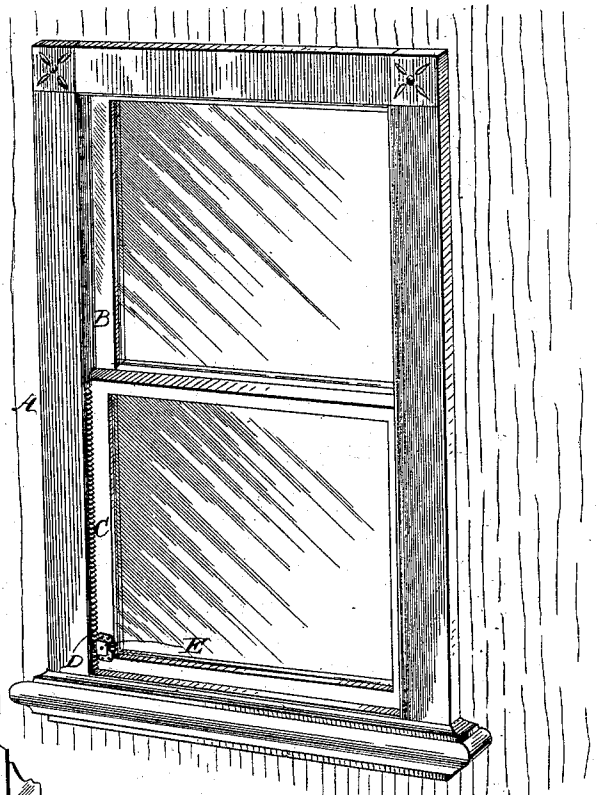


Fig: 2.

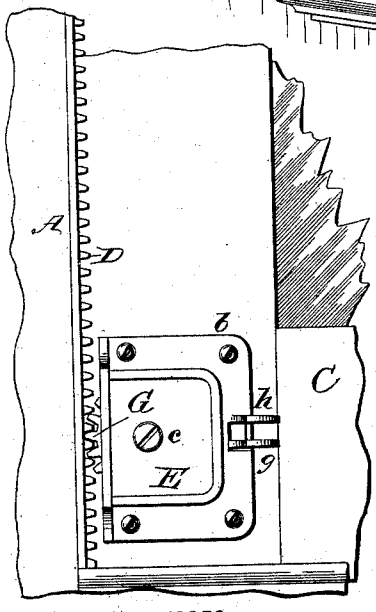
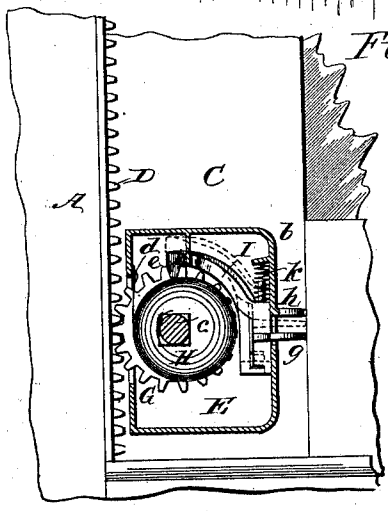


Fig: 3.



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ONSLOW K. GARDNER, OF PITTSBURG, PENNSYLVANIA.

SASH LOCK, LIFT, AND BALANCE.

SPECIFICATION forming part of Letters Patent No. 522,889, dated July 10, 1894.

Application filed January 31, 1894. Serial No. 498,580. (No model.)

To all whom it may concern:

Be it known that I, ONSLOW K. GARDNER, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and Improved Sash-Lock, of which the following is a full and exact description.

My invention is an improvement in sash locks adapted to operate in connection with a rack attached to the side of a window frame.

The invention is embodied in the special construction of the sash lock as herein described.

In the accompanying drawings Figure 1 is a perspective view of a window frame and sashes showing my invention applied to the lower sash. Fig. 2 is a face view of a portion of such frame and the lower sash, with my invention applied (enlarged). Fig. 3 is a view similar to Fig. 2, save that the face plate of the sash lock is removed.

The lock is composed of a slotted case or casing *b*, a toothed wheel G, and a vertically slidable pawl I. The wheel, G, is mounted in said case on a transverse axle, *c*, and gears with the rack D. A coiled spring H is attached at one end to such axle, *c*, and at the other to the case at *d*. The pawl I has a vertical shank, and curves over an upper portion of the wheel G, its ends being provided with a tooth, *e*, for engaging the same as shown. Its shank has a lateral flange *g*, that serves as a finger-lift and projects through a slot in the case *b*. The latter is provided with a fixed lateral flange on lip *h*, opposite the finger-lift of the pawl. A spiral spring *k*, is arranged in the case *b*, to press downward on the pawl I, and hold it normally engaged with the wheel G. By resting a forefinger on the lip *h*, and pressing the adjacent thumb upward against the lifter *g*, the pawl I may be easily slid upward and thus disengaged from the wheel G, which unlocks the sash so that it may be moved up or down, as the case may be, either manually or by the force of the coiled spring H. It is apparent that upon releasing the pawl I from pressure it will instantly re-engage the wheel G.

In some cases the spring, *k* may be omitted and the pawl I allowed to engage the wheel G, by the effect of gravity. The form and arrangement of the pawl are necessary to this operation and the form also enables it to occupy the least space practicable.

What I claim is—

As the improvement hereinbefore described, the sash-lock consisting of the laterally-slotted case, a toothed wheel journaled therein, and the toothed locking pawl, projecting through said case and adapted to slide bodily, vertically, and also curved corresponding to said wheel, over which it extends as shown, and a spiral spring arranged to bear upon the horizontal portion or shank of the pawl, as shown and described.

ONSLOW K. GARDNER.

Witnesses:

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