(No Model.)

J. CARR.

SASH HOLDER.

No. 545,344. Patented Aug. 27, 1895.

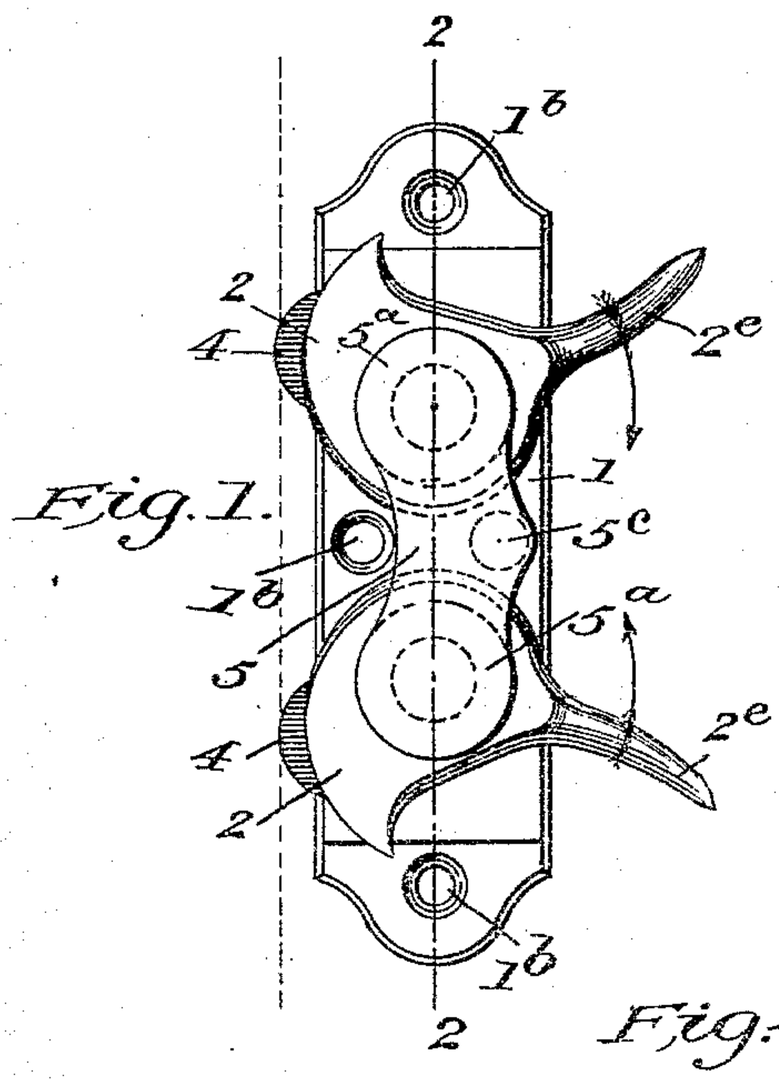

Fig. 1.

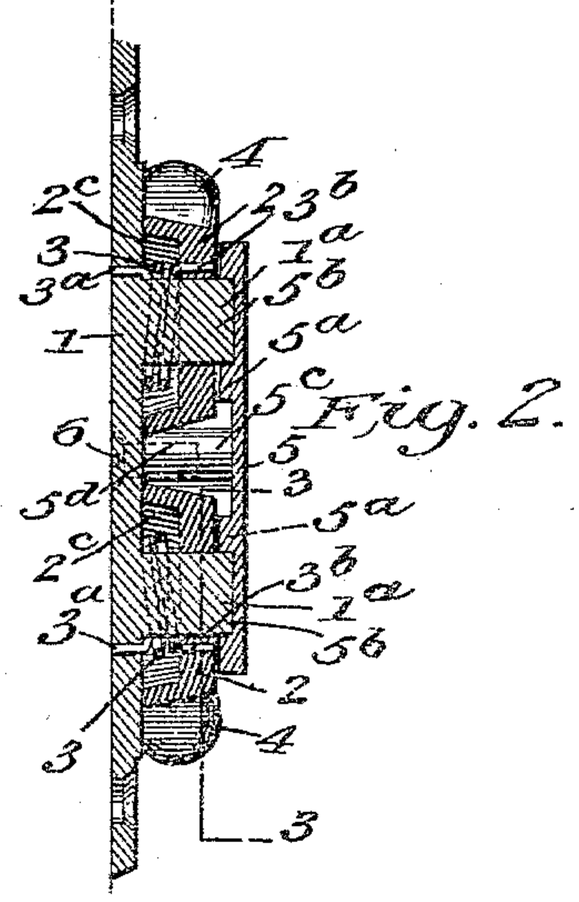

Fig. 2.

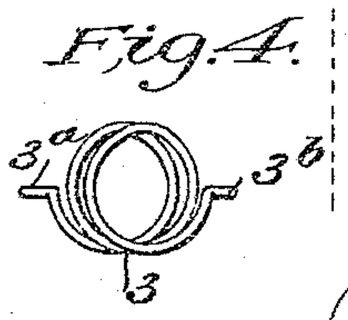

Fig. 4.

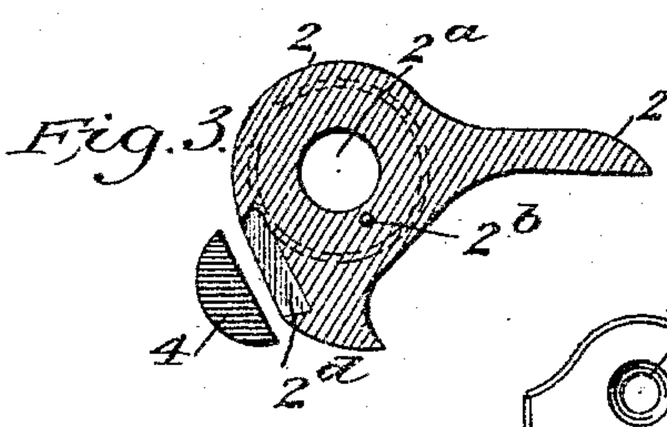

Fig. 3.

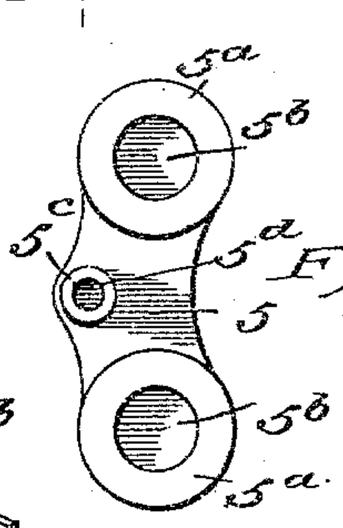

Fig. 5.

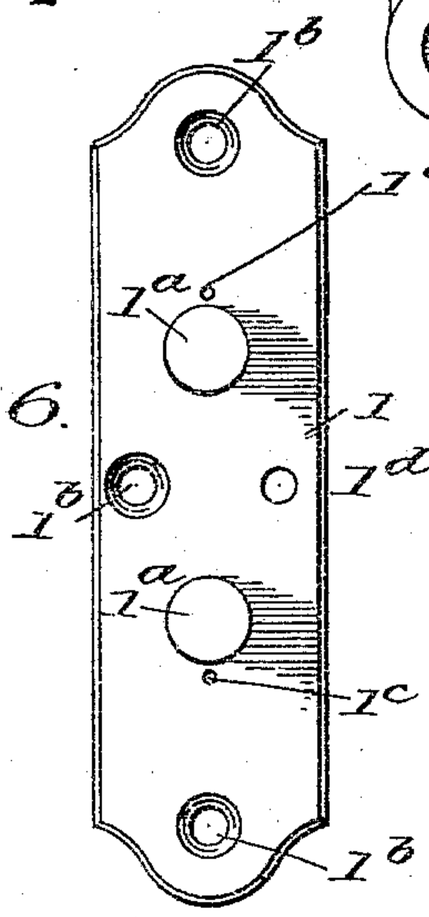

Fig. 6.

Witnesses.
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JAMES CARR, OF ADRIAN, MICHIGAN.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 545,344, dated August 27, 1895.

Application filed November 21, 1894. Serial No. 529,543. (No model.)

To all whom it may concern:

Be it known that I, JAMES CARR, a citizen of the United States, and a resident of Adrian, in the county of Lenawee and State of Michigan, have invented new and useful Improvements in Sash-Holders, of which the following is a specification.

My improvement relates to that class of sash-holders which comprise a pair of cam levers or dogs whereby the sash is supported at any height and held securely from movement in either direction.

My invention consists in novel features of construction, as hereinafter described and claimed.

In order that my invention may be fully understood I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 is a front view of my improved sash-holder. Fig. 2 is a vertical section thereof on the line 2 2, Fig. 1. Fig. 3 is a vertical longitudinal section of the lower cam lever or dog on the line 3 3, Fig. 2. Fig. 4 is a perspective view of one of the coiled tension-springs employed with each of the cam levers or dogs. Fig. 5 is a view of the inner side of the face or shield plate. Fig. 6 is a front view of the back or supporting plate.

1 is the back or supporting plate, formed in one piece with upper and lower fixed studs or pins 1^a and provided with upper, lower, and intermediate holes 1^b for the fastenings whereby the holder is secured to a sash. The plate is also provided with small orifices 1^c, located adjacent to the studs or pins, and with a screw-hole 1^d.

2 are a pair of right and left cam-levers or cam-dogs, each formed with a circular opening 2^a, with a small orifice 2^b located adjacent to the circular opening, with a spring-chamber 2^c surrounding the opening, with a peripheral recess 2^d, and with an operating-arm 2^e. The cam-levers are mounted eccentrically on the studs. Surrounding each of the studs is a coiled tension-spring 3 for throwing the cam-levers outward into holding position, having its outturned end 3^a inserted in an orifice 1^c of the back plate, and its outer outturned end 3^b inserted in an orifice 2^b in the cam-lever.

4 are semicircular blocks of rubber fitting in the peripheral recess of the cam-levers for increasing the frictional contact between the surfaces of cam-levers and the window-frame. These cam-levers are held in position on the back plate by means of a face plate 5, formed with end projections 5^a, having recesses 5^b, and an inwardly-extending post 5^c, having a screw-threaded socket 5^d and providing a stop for the arms of the cam-levers. The studs on the back plate provide bearings for the cam-levers and extend through the circular openings therein and have their ends fitting snugly in the end recesses of the face plate and the latter is secured to the back plate by means of a screw 6 inserted in the screwhole 1^d of the back plate and engaging the screw-threaded socket 5^d of the post 5^c of the face plate.

To operate the holder to release the sash the lever-arms are grasped by the fingers of the operator and pressed together in the direction of the arrows seen in Fig 1.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

In a window lock the combination of a base-plate provided with a pair of projecting studs, a pair of oppositely arranged cam-levers having bearings through which said studs project, independent springs surrounding the studs and each engaging at one end with a fixed point and at the other end with a cam-lever, a cap-plate having recesses on one side at its ends, arranged to receive the projecting ends of the studs and carrying on the same side with said recesses, a stop-post projecting to the base-plate, intermediate of the two levers and forming a stop for either to limit its movement when the other binds, and a connecting screw passing through the base-plate into the stop-post and thereby holding the base and cap-plates together and securing the cam-levers in place, substantially as set forth.

JAMES CARR.

Witnesses:
CHAS. H. CARR,
JOHN E. CARR.