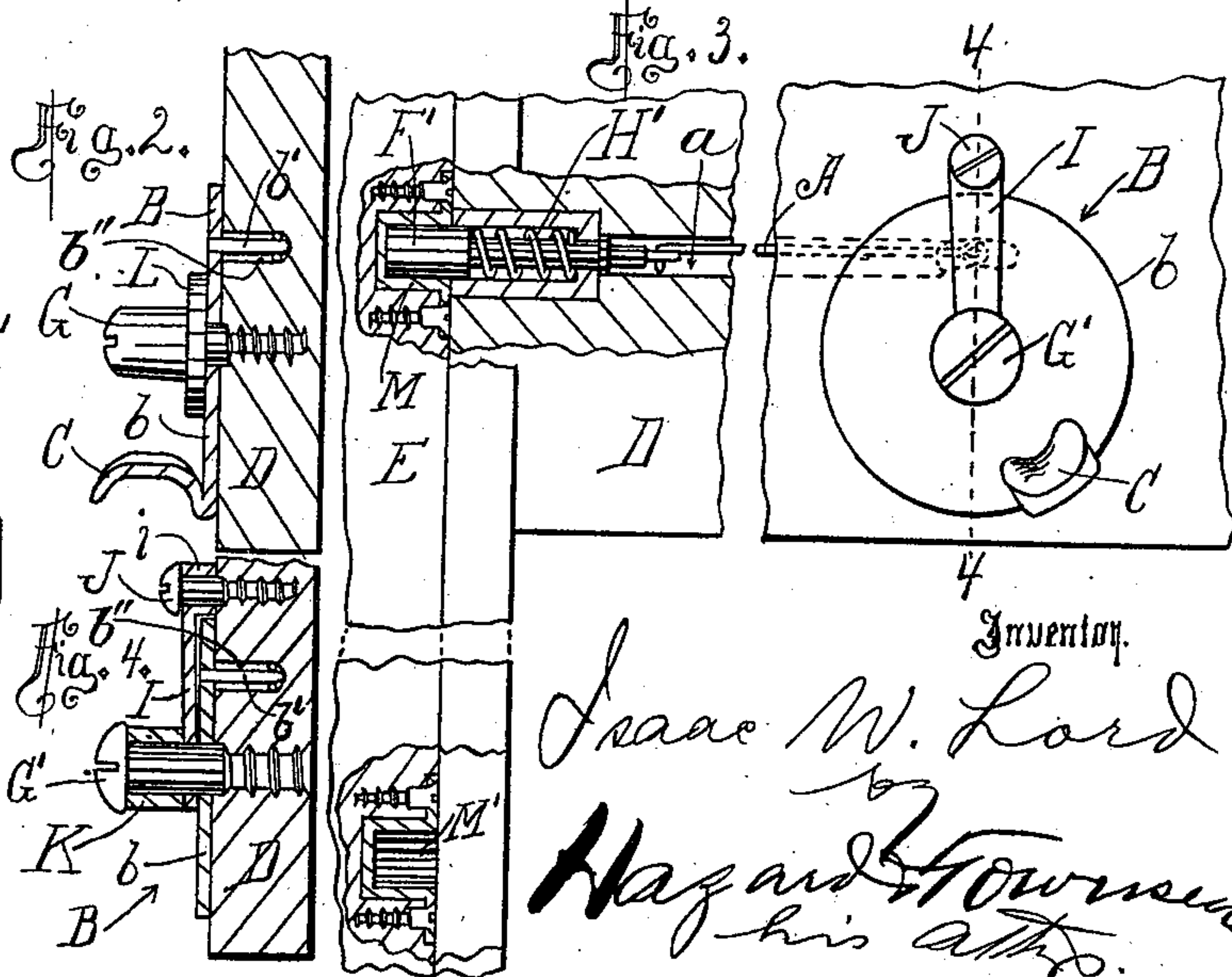
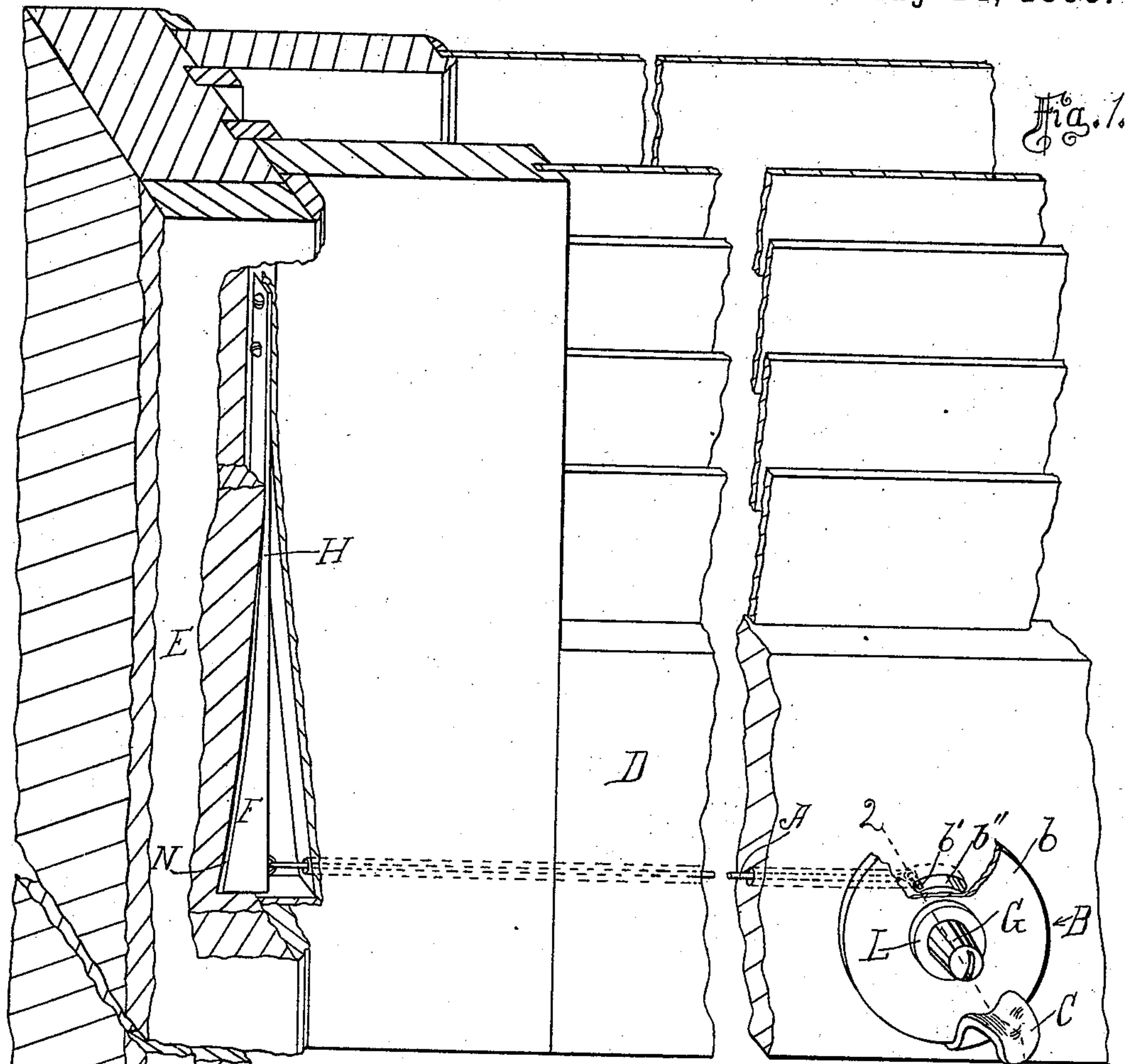


(No Model.)

I. W. LORD.
SASH FASTENER.

No. 539,140.

Patented May 14, 1895.



Witnesses.

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UNITED STATES PATENT OFFICE.

ISAAC W. LORD, OF CUCAMONGA, CALIFORNIA.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 539,140, dated May 14, 1895.

Application filed July 21, 1893. Serial No. 481,092. (No model.)

To all whom it may concern:

Be it known that I, ISAAC W. LORD, a citizen of the United States, residing at Cucamonga, in the county of San Bernardino and State of California, have invented a new and useful Improvement in Sash-Fasteners, of which the following is a specification.

My invention relates more especially to those fasteners which are adapted for use on car windows and other sliding sash. It is also applicable to sliding doors and other analogous uses.

Heretofore with such devices in order to apply them to the sash it has been necessary to cut away the sash to receive the crank shaft, and to provide in addition a fastening plate whereby to pivot the crank shaft, which must be rotated to operate the catch.

The object of my invention is to provide a catch which may be applied to sashes without cutting away the sash to receive the crank-shaft, and to so arrange the parts that the only opening in the face of the sash will be one communicating with the passage for the rod which operates the sash and this opening will be covered and hidden from view by the device which operates as the crank-shaft, so that a single screw will secure the crank-shaft in position, so that it will hide all disfigurement.

A further object of my invention is to provide a device which will be very cheap, ornamental and effective in use and of such simplicity that it will be very easy to apply and not liable to get out of order.

My invention comprises the peculiar arrangements of parts whereby I accomplish the objects specified.

My improved sash catch is provided with a revoluble crank plate, adapted to be secured to the face of the sash frame by means of a centrally arranged pivot passing through the plate and into the sash, such plate being provided on one side with a projecting pin arranged to engage the bolt operating rod, and provided on its other side with an outwardly projecting handle.

My invention comprises the combinations and arrangement of parts hereinafter fully set forth and claimed.

The accompanying drawings illustrate my invention.

Figure 1 is a fragmental view of the lower portion of a sash provided with my invention and mounted in place in a casing, fragments of which are shown. Fig. 2 is a mid-section of the same on line 2 2, Fig. 1. Fig. 3 is a fragmental elevation, partly in section, showing a preferred form of my invention applied to a different form of bolt. Fig. 4 is a section on line 4 4, Fig. 3.

It is essential in order to produce a device of this character which will be adapted for use upon railway cars, for which it is especially designed, that it be cheap, strong, and easily applied, and that it be ornamental and artistic in its appearance. Heretofore it has been deemed necessary to provide a casing or base to serve as a support for the working mechanism of the catch, and in applying the catch to the sash it has been necessary to mortise the sash to receive the working parts of the catch. By my improved construction I so arrange web *b* of the crank plate *B* that it serves as a base to which the handle *C* and the pin *b'* for actuating the bolt operating rod *A* are secured. The revoluble crank plate is circular and is adapted to be applied upon the outer face of the sash or frame *D* and is secured in place by a single screw *G* (*G'*) passing through a centrally arranged pivot hole in the crank plate. No mortising is necessary in fitting the crank plate to the sash, the bolt operating rod being arranged to reciprocate in a small auger hole *a* bored from one edge of the sash to near the center of the bottom bar *D* of the sash, and a small slot *b''* being arranged opening from the face of the sash into such auger hole to allow the pin *b'* to engage the rod *A* and by the partial rotation of the crank plate to operate to retract the bolt *F* (*F'*). By making the crank plate circular, the plate may be arranged directly against the wood work of the sash, and no matter how often the plate is rotated no scar will be visible, since the plate will always conceal any abrasion which it may cause.

H (*H'*) indicates a spring to actuate the catch or bolt and the crank. The crank operating and sash lifting handle *C* is so arranged with relation to the crank pin *b'*, the sash fastener or catch *F* (*F'*), spring *H* (*H'*) and the crank pivot *G* (*G'*) that when the handle *C* is swung round so that the pivot and han-

dle are in line with the line of movement of the sash, the bolt or fastener F (F') will be retracted; that is, withdrawn from its socket in the casing; thus allowing the sash to be
5 moved whenever the handle is brought into position to move the sash.

E represents the casing of the window or other opening in which the sash or other frame D is mounted.

10 In order to secure the crank firmly in place I provide a brace I perforated at one end to receive the body of the pivot screw (G') and arranged to extend over the crank plate h, and provided at its other end with a shoulder i
15 adapted to rest upon the sash D and also provided with a hole passing through the shoulder to receive the brace screw J by which the brace is secured to the sash.

In practice the brace secured at one end by
20 the pivot screw is set in line with the line of movement of the sash and is secured in place by the brace screw J at the other end.

K is a washer applied above the brace at the end through which the pivot screw passes.
25 This is applied to give finish to the pivot screw where an ordinary screw is used and it is desired to have the screw project out from the face of the crank plate; but if desired, this washer can be dispensed with and the screw
30 placed directly in contact with the brace.

In Figs. 1 and 2 the screw is shown with an elongated head, and a washer L is arranged between the crank plate and the head of the screw.

35 In practice the device is operated by grasping the handle C which is normally held by the spring H or H' out of a vertical drawn from the pivot G or G'. The handle is then swung down into line vertical from such pivot thus

retracting the catch and withdrawing it from 40 its socket in the frame and bringing the handle C into position to serve as a handle for raising or lowering the sash. The sash is then raised or lowered by such handle and when in the desired position the handle is 45 freed from the grasp of the operator and thereupon is swung back by the catch spring into the normal position shown in Figs. 1 and 3 and the catch shoots back into its socket.

M M' and N N' indicate the catch sockets 50 in the casing.

Now, having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination set forth of the sash, 55 the bolt operating rod, a revoluble crank plate adapted to be secured to the face of the sash by means of a centrally arranged pivot, such plate being provided on one side with the projecting pin arranged to engage the bolt oper- 60 ating rod, and provided on its other side with an outwardly projecting handle; and a centrally arranged pivot passing through the plate and into the sash.

2. In a sash catch the circular crank plate 65 secured upon the face of the sash by the centrally arranged pivot, and provided upon one side with the bolt operating pin and provided upon the other side with the handle, in combination with the brace arranged upon the 70 outside of the crank plate and having one end secured to the pivot and the other end secured to the sash, the bolt, and the bolt operating rod.

ISAAC W. LORD.

Witnesses:

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