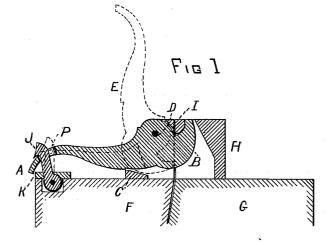
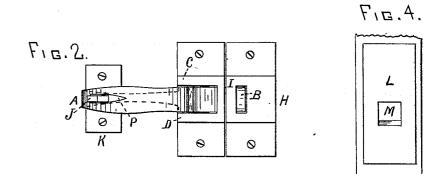
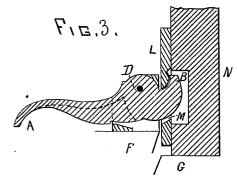
(Model.)

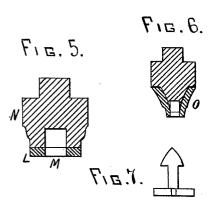
## L. D. CLEAVELAND.

Fastenings for Meeting Rails of Sashes.No. 231,401.Patented Aug. 24, 1880.









Witnesses. Arthur D. Morey, William R. Maulove.

Inventor . Lounzo D. Cleaveland By J. L. Chapm Atty.

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## UNITED STATES PATENT OFFICE.

LORENZO D. CLEAVELAND, OF CHICAGO, ILLINOIS.

## FASTENING FOR THE MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 231,401, dated August 24, 1880. Application filed April 27, 1880. (Model.)

To all whom it may concern:

Be it known that I, LORENZO D. CLEAVE-LAND, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Fastenings for the Meeting-Rails of Sashes, (Case A,) of which the

- following is a specification, reference being had to the accompanying drawings, in which-
- Figure 1 is a transverse section of the meet-10 ing-rails of the sash and a sectional elevation of my improved sash-lock in position as when the sash are locked in the window frame; Fig. 2, a plan or top view of the lock attached to the meeting-rails of the sash. Fig. 3 represents
- 15 the lock-fastening to the vertical bar of a sash as when the sashes are partially open. Fig. 4 is a face view of the catch-plate which is fastened to the central bar of the upper sash. Fig.
- 5 is a transverse section of the central bar and 20 the catch plate attached. Fig. 6 is a transverse section of a central bar and a molded catch-plate, to be used where the bar is too thin to receive a suitable face-plate in flat form, as shown at Figs. 4 and 5. Fig. 7 shows a 25 modified form of catch for fastening the end

A of the lever-catch to the meeting-rail.

The object of the present invention is to provide more convenient means for locking the meeting-rails of window-sashes and locking the 30 sashes together when partially open in the

window-frame. The invention consists in a box catch attached to the top side of the upper meetingrail, and a lever-catch pivoted to a frame at-

- 35 tached to the top side of the lower meetingrail, and in mechanism for fastening the levercatch to the meeting-rail; also, in means for locking the sash in different positions in the window-frame, so as not to be opened from the
- 40 outside of the building, and, further, in means for drawing the meeting-rails even during the process of locking the sash in the frame.

A B represent a catch-lever, which is pivoted to a frame, C, at D, so as to occupy the

position shown at Fig. 1, and also as indicated by the dotted lines E. The end B of the lever-45 catch AB is curved, so as not only to lift the upper sash, but to draw the meeting-rails closely together, and it is so formed and pivoted that

there) by its own gravity, so as not to lock the sash when they are to move.

The frame C is to be securely fastened to the top side of the meeting-rail of the lower sash; and a box-catch, H, is to be fastened to the 55 top side of the meeting-rail of the upper sash, as shown at Fig. 1. The box-catch H is slotted out on the side

adjoining the frame C, to permit the levercatch A B to pass freely in and out, and a hole 60 is formed in the top thereof, that the hooked part B of the lever catch may pass through and lock onto a firm support or bearing, I. This construction is such that when the levercatch is in position, as shown in Fig. 1, the 65 sashes will be securely locked in the windowframe, and such that when the lever-catch is elevated, as shown by dotted line E, the sashes can be moved in the frame; also, such that the meeting-rails may be drawn even by the act of 70 locking the sash—that is, if the rail G should be somewhat lower than the rail F, it is brought into proper position by the act of bringing the end A of catch lever A B down onto the meeting rail after the hooked part B is 75 made to engage the support I.

To prevent the end B of the lever-catch A B from being disengaged from the support I, the inner end, A, is slotted out vertically at P, and a catch, J, pivoted to a plate, K, at- 80 tached to the meeting-rail F, is put through the slot and brought onto the metal at the inner end of the slot, as shown at Fig. 1. A spear-shaped catch (shown at Fig. 7) may be substituted for the catch J; or a loop-catch hinged 85 to the plate K may be used instead of the one shown. The spear shaped catch is pivoted vertically to a base-plate, and it is to be put through the slot in the end A of the lever catch A B and turned a fourth round to lock the 90 lever.

To lock the sash in different positions in the window-frame, one or more plates, L, provided with a slot, M, is to be attached to the face of the central bar, N, and the lever - catch A B 95 locked therein instead of the catch H.

Where the central bar is too thin to receive a plate, L, of suitable width, a plate, O, molded to conform to the mold of the bar, is fastened 50 it will stand in an upright position (when placed | to the latter, as shown in Fig. 6, the said plates 100. being let into the wood or fastened to surface of the sash, as most convenient or desirable, and they may have any desired form suitable to be engaged by the lever-catch A. B.

5 Where there are no central bars in the sash the plates can be attached to the stiles of the sash, the frame C being placed over the end of one of the lower stiles and fastened to the meeting-rail.

10 I am aware that F. J. Hoyt obtained Letters Patent on July 10, 1877, for a sash-fastener in which a bent lever pawl operated to lock the sash; but as the device operated to push the sash apart, I consider my lock a great

15 improvement over it.

I claim and desire to secure by Letters Patent—

In a sash-lock, the lever A B, constructed with a hooked end, B, and a slotted end, A, and pivoted to the lower sash, so as to stand 20 upright by its own gravity and be free from contact with the upper sash when the sash are to move, in combination with the catch H, for engaging the hooked end B of the lever, and the catch J, passing through the slot in the end 25 A of the lever and locking it to the lower sash, as and for the purpose specified.

Witnesses: LORENZO D. CLEAVELAND. G. L. CHAPIN,

A. G. MOREY.