(No Model.)

M. WEST.

WINDOW.

No. 575,188. Patented Jan. 12, 1897.

Fig. 1.

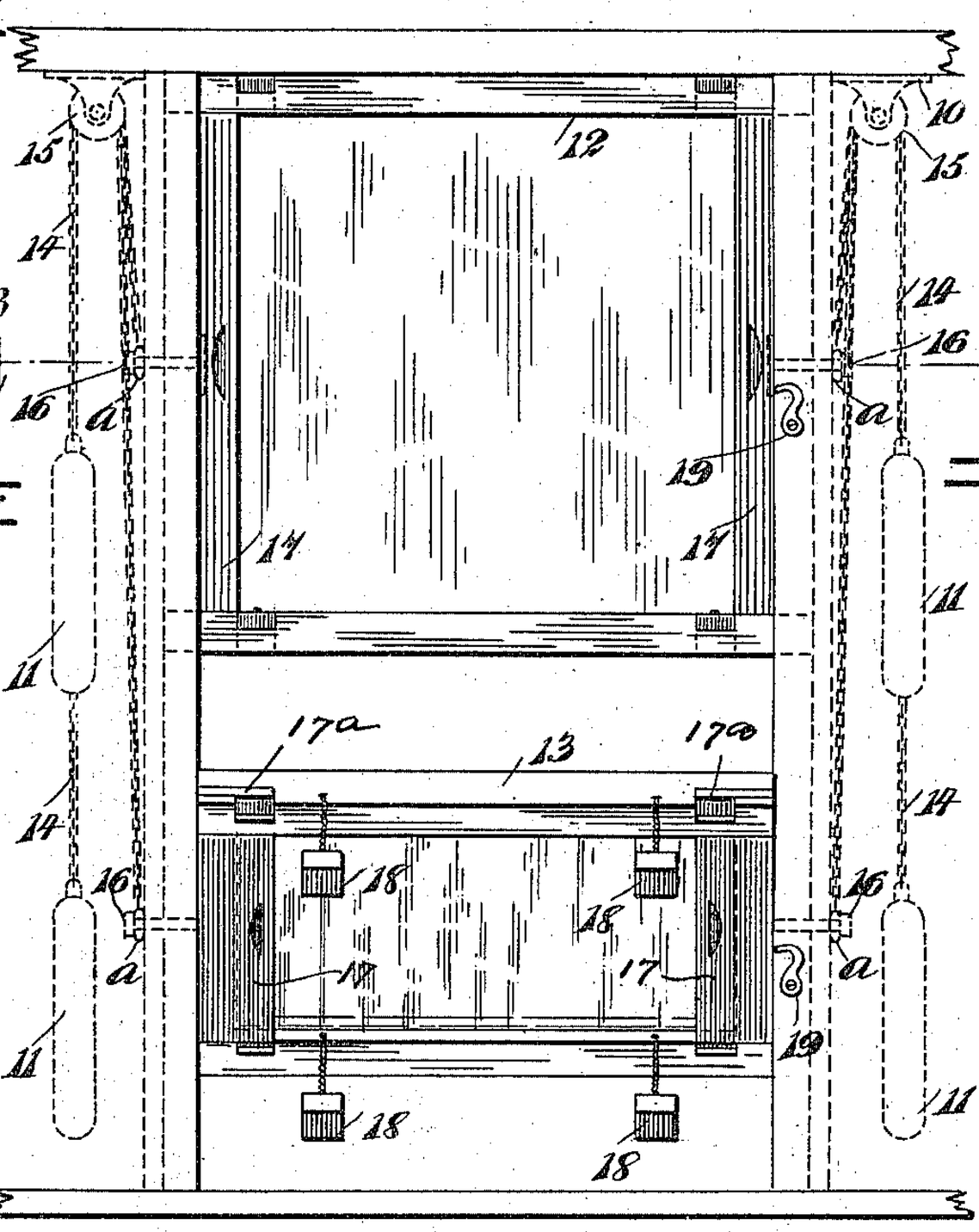


Fig. 5.

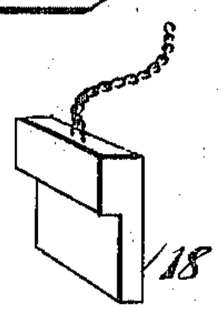


Fig. 4.

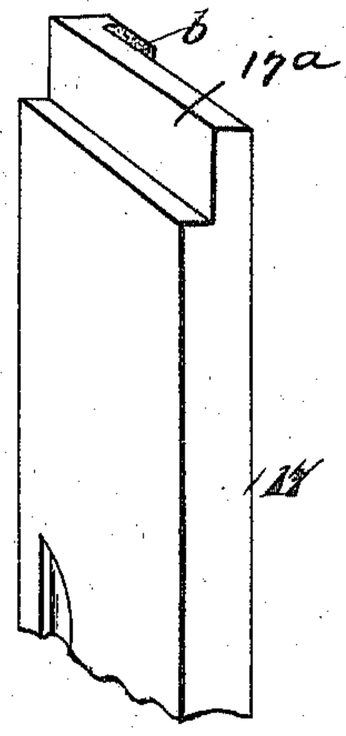


Fig. 2.

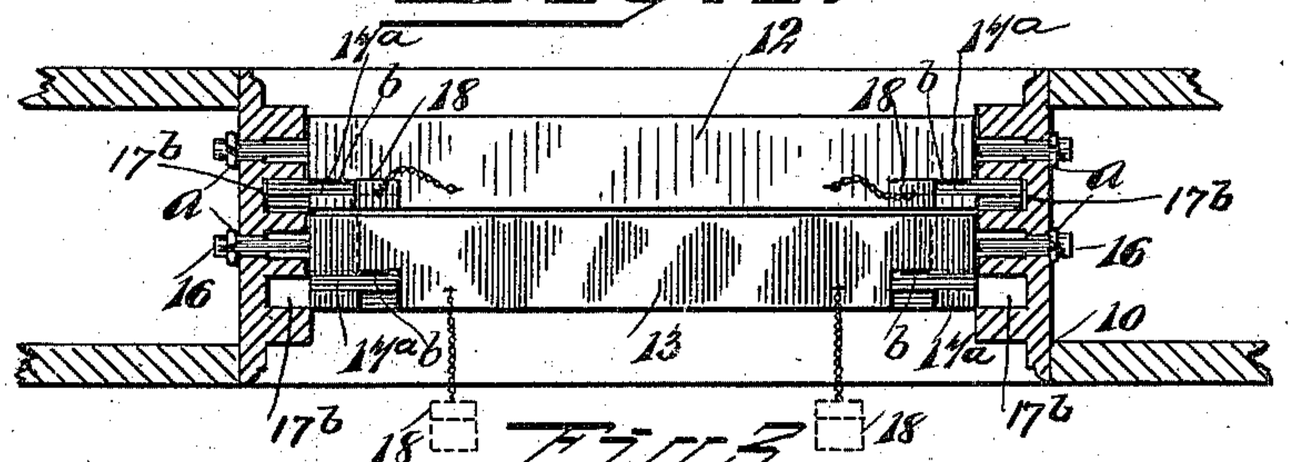
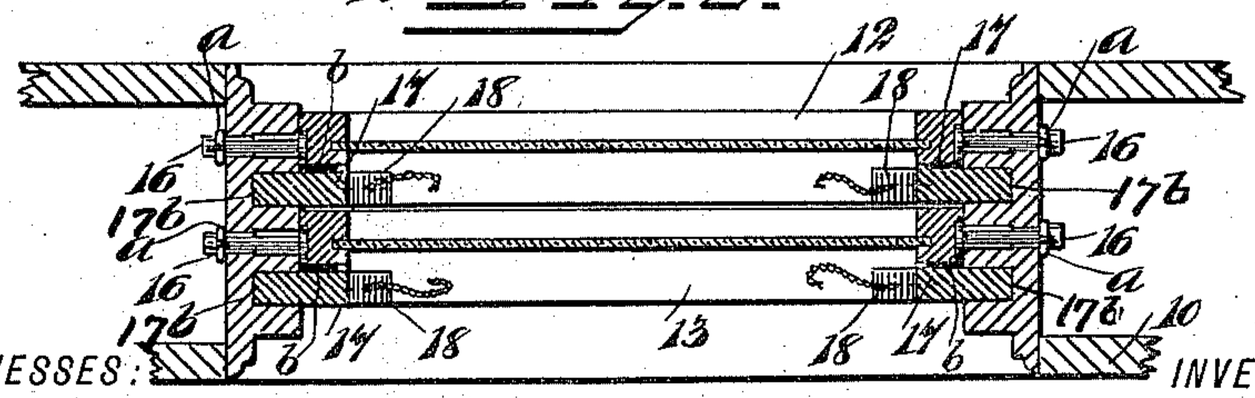


Fig. 3.



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WINDOW.

SPECIFICATION forming part of Letters Patent No. 575,188, dated January 12, 1897.

Application filed February 29, 1896. Serial No. 581,289. (No model.)

To all whom it may concern:

Be it known that I, MARY WEST, of Birmingham, in the county of Jefferson and State of Alabama, have invented certain new and useful Improvements in Windows, of which the following is a full, clear, and exact description.

The object of this invention is to provide a superior window of that class in which the windows may be adjustable vertically and axially on a horizontal pivot. These ends I attain by weighted chains, a sash, bolts for connecting the sash with the chains, which bolts are vertically movable and on which bolts the sash is capable of axial adjustment, and by a fastening device by which the sash may be held incapable of axial movement. With these means the sash may be freely moved in the frame or casement of the window and turned on its pivot to open the window.

The invention consists in certain combinations which will be fully described hereinafter and finally embodied in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a window embodying one form of my invention. Fig. 2 is a sectional view of the same, looking down upon the two sashes. Fig. 3 is a similar view taken on the line 3 3 of Fig. 1. Fig. 4 is a detail perspective of the cleat for locking the window-sashes shown in Figs. 1 to 3, and Fig. 5 is a detail perspective of the locking-block used in connection with the cleat shown in Fig. 4.

The window frame or casement 10 is provided with two vertical slots at each side, in each of which slots the bolts 16 are vertically movable, said bolts having their outer ends respectively connected with the rings *a*, in turn attached to the chains 14, rolling over pulleys 15, carried by the casement 10, the chains having weights 11 connected thereto. Pivotally connected to the inner ends of each pair of bolts 16 are the sashes 12 and 13, which are in Figs. 1 to 3 duplicates in construction. Each sash has a locking-cleat 17 at each inner side, and these locking-cleats are provided with reduced ends 17^a, sliding in slots formed in the upper and lower rails of the sashes. The cleats 17 are adapted to move into vertical grooves 17^b, formed in the casement, and by these means the window-sashes will be held incapable of movement on the bolts 16. It will be seen that the sashes may move vertically when the cleats 17 are engaged with the grooves 17^b.

When the cleats 17 are engaged with the grooves 17^b, they are held in such position by means of blocks 18, connected to the window-sashes by chains, said blocks being inserted in the openings or slots in the window-sashes, so as to prevent the return of the cleats. As shown in Fig. 4, the cleats 17 are provided with packing-strips *b*, by which an air-tight connection with the sash is effected.

Pivotally mounted on the window-casement are hooks 19, adapted to engage in notches (not shown) to be produced in the window-sashes, whereby the sashes may be held horizontally.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a window, the combination with a casing having two vertically-extending slots, of bolts respectively movable in the slots, a sash pivotally connected with the bolts, weighted chains also connected with the bolts, a locking-cleat slidable on the sash and capable of engaging the casement to hold the sash from rotation, and a block flexibly connected with the sash and capable of engaging the locking-cleat to hold the same in position, substantially as described.

2. In a window, the combination with a window-frame having two vertical slots and two vertical grooves, of bolts respectively movable in the slots, a window-sash pivotally connected with the bolts and having slots at each end of its upper portion, two locking-cleats, the ends of which are reduced and respectively fitted within the slots, the locking-cleats being capable of movement on the sash to extend into the grooves, and blocks flexibly connected with the sash and capable of engaging the locking-cleats to hold the same in position, substantially as described.

3. The combination with a window-casement having grooves in its stiles, and two longitudinal slots therein, of sashes having opposite pivot-bolts slidable in the slots of the casement, weighted flexible connections, rings in the ends of said connections engaging the pivot-bolts, locking-cleats having lateral joint-facings and adapted to be moved into and out of the casement-grooves, and means for detachably securing the locking-cleats in the grooves, substantially as described.

MARY WEST.

Witnesses:
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