L. VOGGENREITER.

WINDOW LOCK.

APPLICATION FILED JAN. 2, 1913.

1,066,347. Patented July 1, 1913.

Fig. 1.

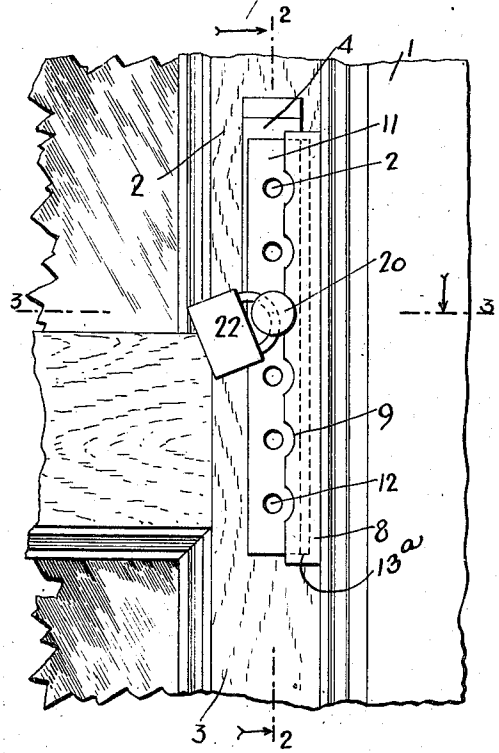


Fig. 2.

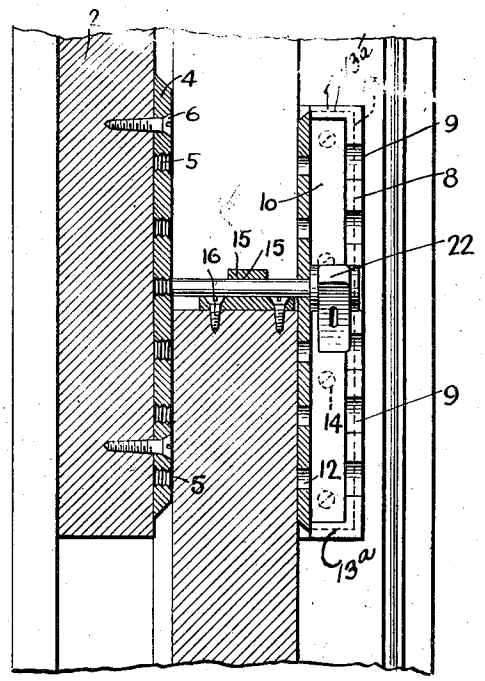


Fig. 3.

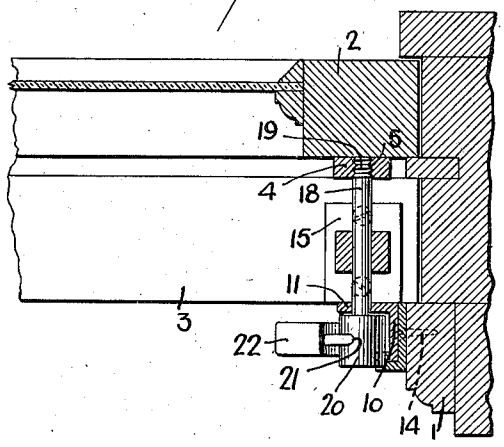
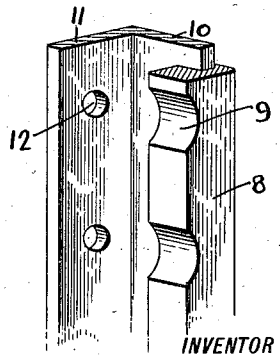


Fig. 4.



WITNESSES

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WINDOW-LOCK.

1,066,347. Specification of Letters Patent. Patented July 1, 1913.

Application filed January 2, 1913. Serial No. 739,665.

To all whom it may concern:

Be it known that I, LOUIS VOGGENREITER, a subject of the Emperor of Germany, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Window-Lock, of which the following is a full, clear, and exact description.

This invention is more particularly directed to a structure for holding the upper and lower sashes fixed relatively to each other in a manner preventing relative movement.

The principal object of the invention is to provide a new and improved window lock made up of parts carried by the casing and by the upper and lower sash, whereby the window may be left open a certain amount, the construction being such that the lock is not easily disturbed.

It is of some importance in the production of devices in this class that a dependable structure be provided which may be disposed of at low cost, and in the preferred embodiment of the inventive idea such fact has been kept in mind. As my invention is constructed a U-shaped frame is provided, with its terminals extending toward a window sash, the central portion of the U-shaped frame having openings through which are disposed fastening means, the fastening means being covered by an angle plate, which fits in a groove in the side of the U-shaped frame. By this means the fastening means for the U-shaped frame is covered, so that it may not be tampered with by persons desiring to open the window.

Reference is to be had to the accompanying drawings forming a part of this specification, in which like characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a partial view of a window showing the lock in position; Fig. 2 is a sectional view on the line 2—2 of Fig. 1; Fig. 3 is a sectional view on the line 3—3 of Fig. 1; while Fig. 4 is a partial perspective of that part of the lock carried by the casing.

In the adaptation of the invention as shown, the window casing is designated as 1, the upper sash 2 and the lower sash 3, the upper and lower sashes being each movable up and down in the casing.

Fixed to the inside of the upper sash 2 is a plate 4 having a number of threaded openings 5 therein, suitably spaced apart, fixed in position in any suitable manner, as by means of screws 6, it being noted that the heads of the screws are flush with the side of the plate, and in the position shown in Fig. 2 the lower screw is covered by the inner sash, thereby preventing removal thereof.

Fixed to the casing 1, and extending at right angles from the plane in which the sash moves, is a frame 7 of substantially U-shape, the intermediate portion 8 of which is provided with recesses 9 of curved conformation; extending adjacent the inside of the lower sash 3 is a plate made up of the right-angularly extending portions 10—11, the portion 11 being provided with openings 12 spaced apart distances corresponding to the distances between the threaded openings 5 in the upper sash 2; as indicated in broken lines in Fig. 2 the U-shaped frame 7 is under-cut as at 13, thereby providing a pocket into which the part 10 extending at right-angles to the part 11 may fit, the screws which secure the frame to the casing being designated 14 and being covered by the said part 10, whereby removal of the frame and the plate is prevented.

The U-shaped frame 7 is undercut not only at 13 along its intermediate portion 8, but also at 13^a along its upper and lower portions.

Fixed to the top of the lower sash 3 is a bearing block 15, secured in position by means of screws 16, the said block having a passageway 17 extending therethrough, through which the bolt 18 is adapted to extend, the threaded end 19 of the bolt engaging in one of the threaded openings 5 in the plate 4, the headed end 20 of the bolt coming adjacent one of the openings 12 in the portion 11 of the plate which is fixed on the casing. Referring particularly to Figs. 2 and 3 it will be noted that when the bolt 18 is in operative position the screws 16 which hold the bearing block 15 are covered by the said bolt, whereby removal of the block from the lower sash is prevented.

Referring particularly to Figs. 1 and 4 it will be noted that the headed end 20 of the bolt 18, when the parts are in operative relation, is seated in one of the curved recesses 9 in the frame 7; this end of the bolt is provided with an opening 21 extending therethrough, and a lock 22 has a portion

thereof passing through the opening so that separation of the parts by unscrewing the bolt is prevented.

The window lock described, when in operative position, prevents relative movement of the sashes of the window, so that being fixed in position to provide a certain opening for the admission of air, either sash cannot be further moved in order to permit entrance to a room.

The use of the device is substantially as follows:—The plate 4 is permanently fixed to the upper sash 2; the frame 7 and the right-angularly extending plate carried thereby are permanently carried by the casing 1; the bearing block 15 is permanently fixed to the top of the lower sash 3; when it is desired to lock the relative positions of the sashes the bolt 18 is entered through one of the openings 12 through the bearing block into one of the threaded openings 5, being turned in order to bring the threaded co-acting parts into engagement, after which the lock 22 is fixed in position, the parts being then in the relation shown in Fig. 1. In order to permit movement of the sash in the casing the lock 22 is removed, after which the bolt 18 may be withdrawn.

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

1. In a construction of the class described, a U-shaped frame the open side of which is normally disposed adjacent a window sash, the intermediate portion of the frame being provided with openings whereby it may be secured in position on a window casing, an angle plate having a side disposed against the inner side of the portion of the U-shaped member having the openings for covering the fastening means, the said side of the angle plate fitting the U-shaped member, the angle plate having another side normally disposed at the window sash and provided with openings for the purpose specified.

2. In a construction of the class described, a U-shaped frame, the open side of which is normally disposed adjacent a window sash, the intermediate portion of the frame being provided with openings, whereby it may be secured in position on a window casing, there being a groove along one of the sides of the U-shaped frame, an angle plate having a side disposed against the inner side of the portion of the U-shaped member having the openings for covering the fastening means, the said side of the angle plate fitting the groove in the U-shaped member, the angle plate having another side normally disposed at the window sash and provided with openings for the purpose specified, a bearing normally secured to the window sash, a plate with openings normally secured to a companion window sash, and a bolt disposed through the openings in the plate and the bearing for the purpose specified.

3. In a construction of the class described, a U-shaped frame the open side of which is normally disposed adjacent a window sash, the intermediate portion of the frame being provided with openings whereby it may be secured in position on a window casing, an angle plate having a side disposed against the inner side of the portion of the U-shaped member having the openings for covering the fastening means, the said side of the angle plate fitting the U-shaped member, the angle plate having another side normally disposed at the window sash and provided with openings for the purpose specified, a bearing normally secured to the window sash, a plate with openings normally secured to a companion window sash, a bolt disposed through the opening in the plate and the bearing for the purpose specified, the U-shaped frame having recesses normally engaged by the bolt.

4. In a construction of the class described, a substantially U-shaped frame adapted to be secured to a window casing, the open side of the said frame lying adjacent the sash, and a plate made up of right-angularly extending portions contained within the frame, one of the portions serving to cover the fastening means, whereby the said frame is held in position.

5. In a construction of the class described, the combination of a frame of substantially U-shape, the frame being provided with openings whereby it may be secured in position on a window casing, the open side of the frame lying adjacent the sash and the closed side being provided with curved recesses, a plate made up of right-angularly extending portions carried by the frame and covering the fastening means passing through the said openings therein, whereby when the parts are in operative position removal of the frame and plate is prevented.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LOUIS VOGGENREITER

Witnesses:

LESTER H. APPEL,

OTTO HEISNIG.