

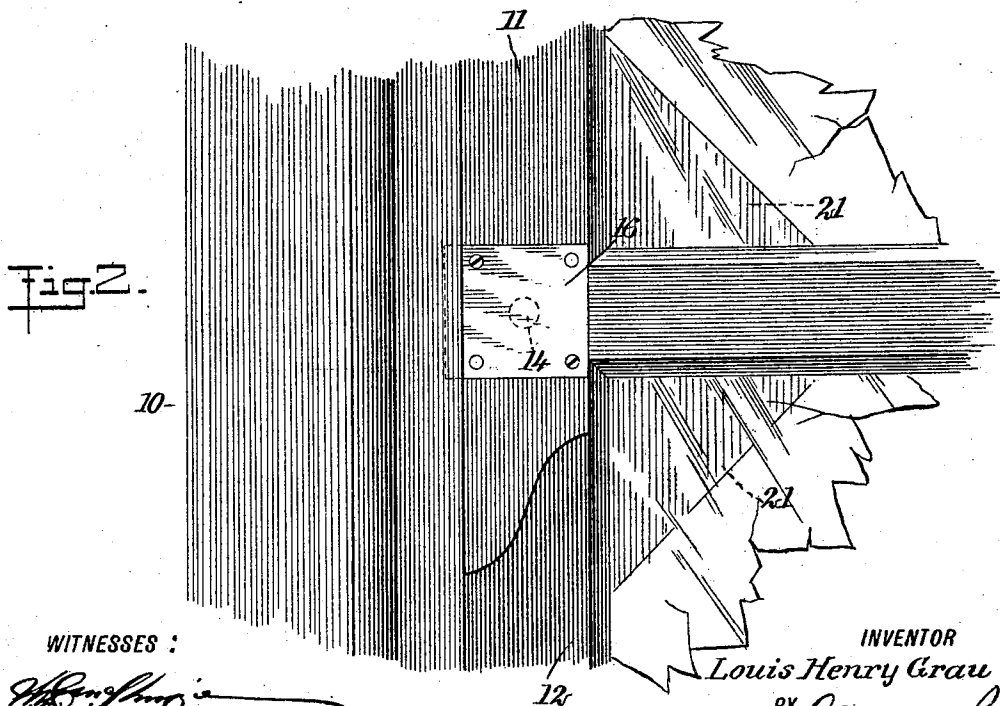
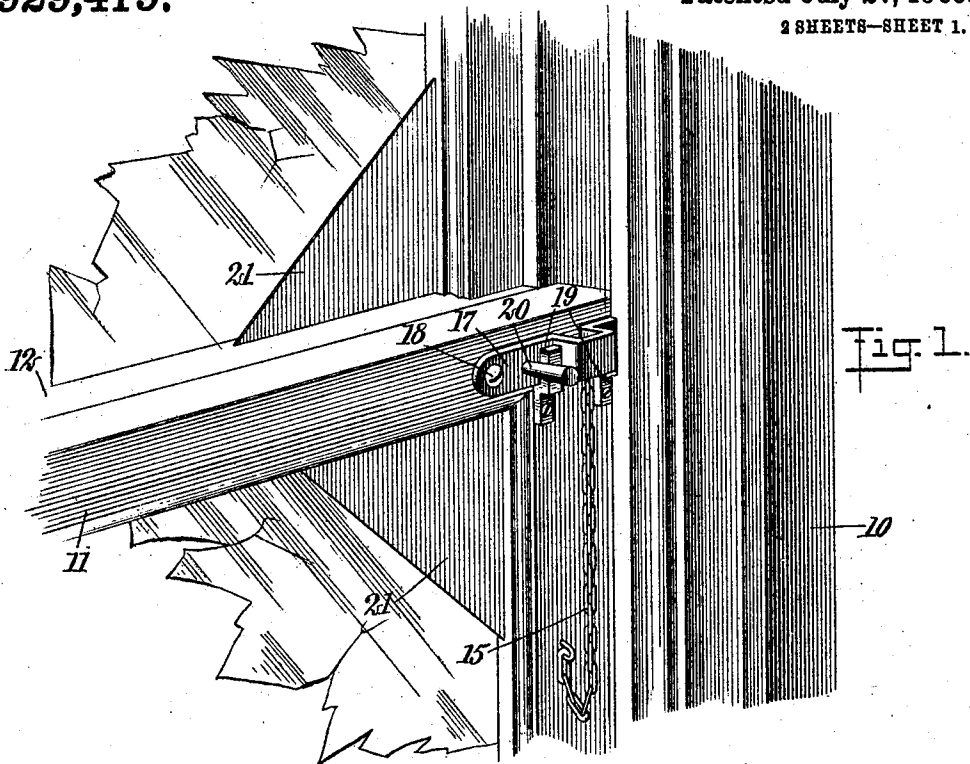
929,419.

L. H. GRAU.
SASH LOCK.

APPLICATION FILED DEC. 5, 1908.

Patented July 27, 1909.

2 SHEETS—SHEET 1.



WITNESSES :

W. H. H. H.
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INVENTOR

Louis Henry Grau

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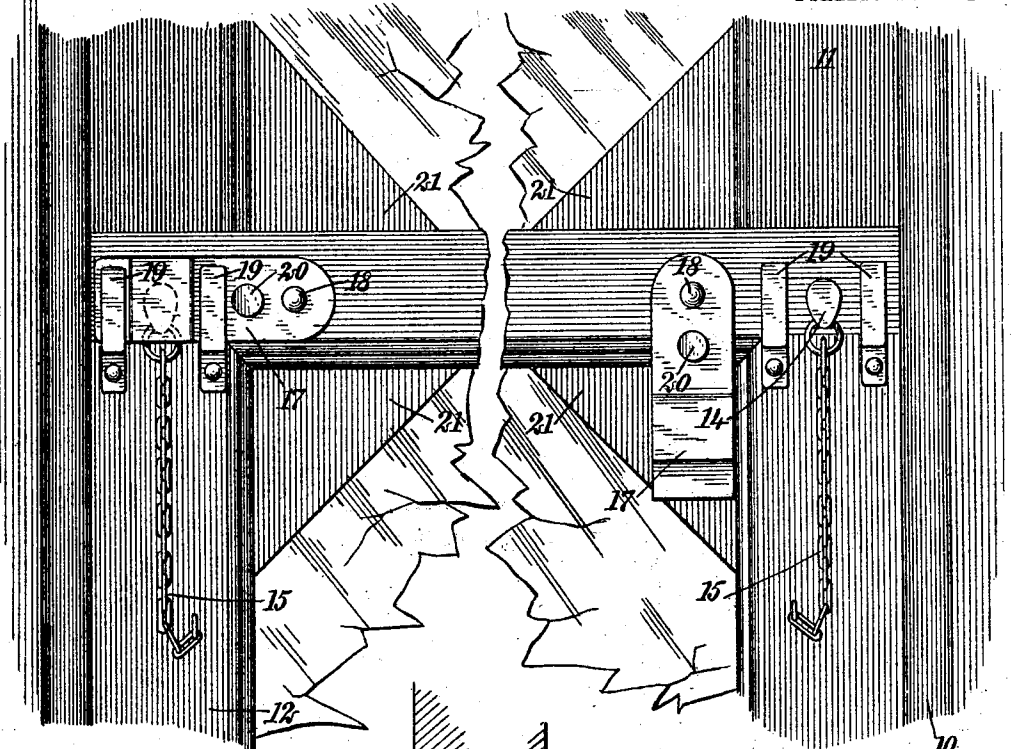


Fig. 3.

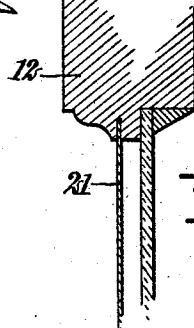


Fig. 5.

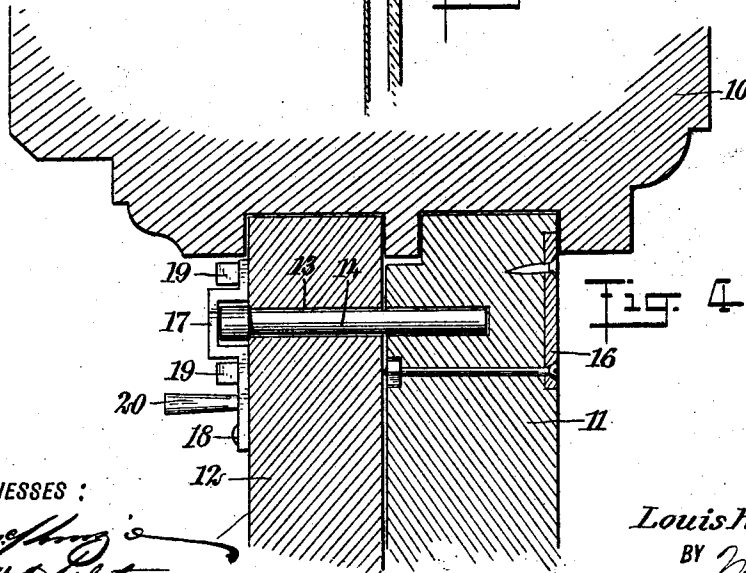


Fig. 4.

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UNITED STATES PATENT OFFICE.

LOUIS HENRY GRAU, OF SAN FRANCISCO, CALIFORNIA.

SASH-LOCK.

No. 929,419.

Specification of Letters Patent.

Patented July 27, 1909.

Application filed December 5, 1908. Serial No. 466,094.

To all whom it may concern:

Be it known that I, LOUIS HENRY GRAU, a citizen of the United States, and a resident of San Francisco, in the county of San Francisco and State of California, have invented a new and Improved Sash-Lock, of which the following is a full, clear, and exact description.

The invention has in view a sash lock embodying simplicity and strength which when in locking position will effectively resist the raising of the window, as by prying up the lower sash with a jimmy or such other instrument, hence in other respects burglar proof.

To this end the invention may be defined as consisting of a bolt insertible in the overlapping portions of the sash frames at each corner, the bolts passing from the inside through the lower sash into the upper sash, and guard plates movable over the heads of the bolts to prevent the bolts from being punched out from the outside of the window.

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 views.

Figure 1 is a fragmentary perspective view of a window having my improved sash lock applied thereto; Fig. 2 is an outside view of the same; Fig. 3 is an inside view of the window, showing the movable guard plate of one of the locks in operative position, and the corresponding plate of the other lock swung from its keepers, as when withdrawing or inserting the bolt; Fig. 4 is a horizontal section of the sash in the plane of one of the bolts; and Fig. 5 is a horizontal section through one of the sashes adjacent to one of the locks, showing the connection between the sash frame and one of the corner shields.

For the purpose of illustrating the application of my improved sash lock, I have shown a conventional form of window consisting of the window-frame 10, in which are slidable an upper sash 11 and a lower sash 12, the sash being of the usual construction except in the matter of the borings and fittings incident to the application of my improvements.

In the overlapping portions of the sash frames, when the window is closed, is provided at each corner a boring or opening 13, in which is adapted to be removably inserted from the inside, a bolt 14, the boring and bolt passing through the lower sash and into

the upper sash a substantial distance. The heads of the bolts are preferably provided with chains or other flexible members 15 which are attached to the side rails of the lower sash frame and prevent the bolts from losing or being otherwise misplaced when not in use.

Over the end of each bolt 14 and attached to the bottom rail of the upper sash on its outside is a fixed steel guard plate 16, the same being secured in any suitable manner, preferably in a way that it cannot be removed from the outside. At the inside of the window the heads of the bolts, when the latter are in locking position, are covered by movable guard plates 17, each of these plates being pivotally connected by a rivet or other similar device 18 to the top rail of the lower sash and movable into keepers 19 which are attached to the side rail of the lower sash and are open at the top, whereby the guard plate may be swung upwardly from over the head of the bolt, that portion of the guard plate which passes over the bolt being offset sufficiently to clear the head. The guard plate is moved to and from an operative position by a suitable knob or handle 20. The corners of both sashes adjacent to the lock have triangular shields 21 of sheet metal, which, as best shown in Fig. 5, are let into the sash frames close to the respective window panes. These shields prevent immediate access to the sash locks from the outside should the window panes be broken; and further obscure the sash locks from view. The fixed steel guard plate 16 prevents the extraction of the locking bolts 14, as by boring a hole through the sash frame from the outside in alinement with the borings 13. Should, however, such borings be made they would be of no avail, as the bolts could not be punched out on account of the movable guard plates at the inside.

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

1. In a sash lock, a bolt insertible in the overlapping portions of the sash frames at the corner, with the bolt passing from the inside through the lower sash into the upper sash, and a guard plate movable over the head of the bolt to prevent the removal thereof from the outside.

2. In a sash lock, a removable bolt passing through the frame of one sash into the frame of the other sash, and a guard plate pivoted

on the frame of one sash to swing over the head of the bolt.

3. In a sash lock, a bolt insertible through the frame of one sash into the frame of the
5 other sash, keepers open at the top and arranged at the opposite sides of the bolt opening, and a guard plate movable behind said keepers and having an offset portion to clear the head of the bolt.

10 4. In a sash lock, a bolt insertible through one sash into the other, a guard plate movable over the head of the bolt at the inside

and carried by one sash, and a guard plate arranged over the opposite end of the bolt and attached to the other sash at the out- 15 side.

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

LOUIS HENRY GRAU.

Witnesses:

P. J. KENNEDY,
J. D. HYNES.