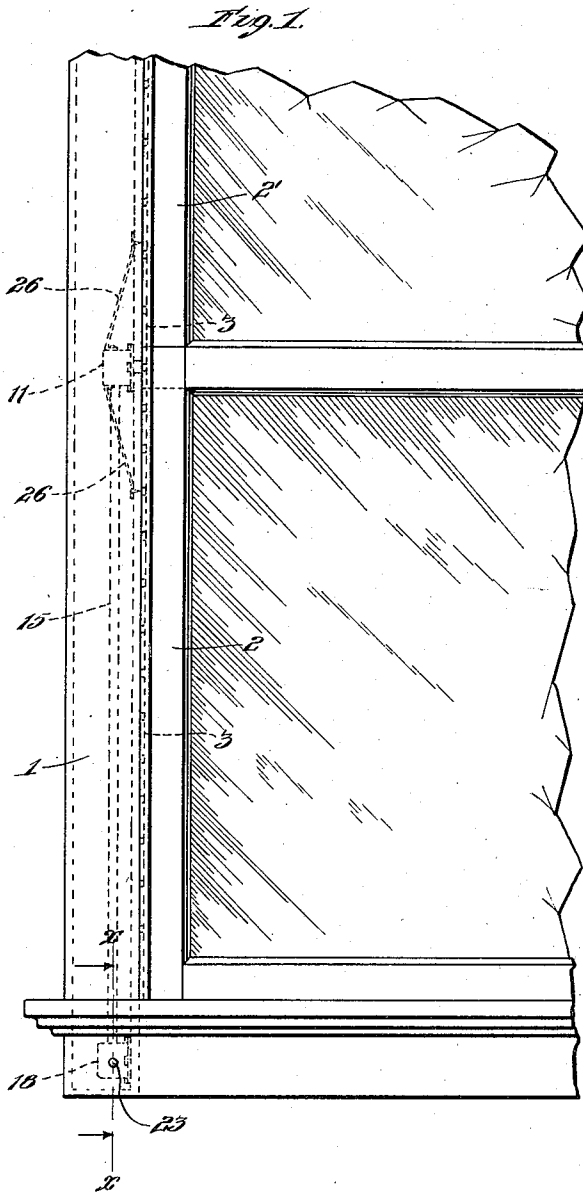
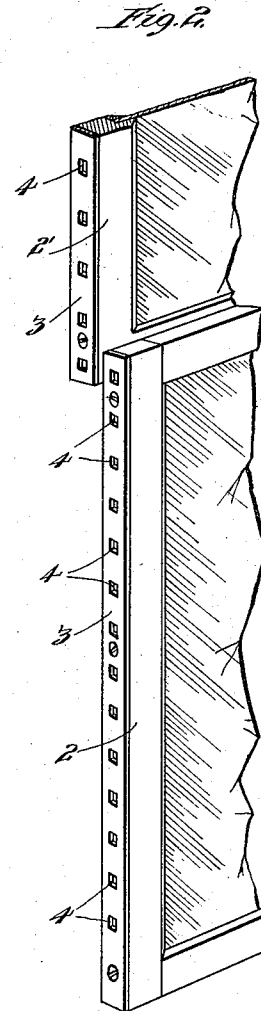


F. C. SCHOENHERR.
WINDOW SASH LOCK.
APPLICATION FILED JULY 8, 1914.

1,156,632.

Patented Oct. 12, 1915.

2 SHEETS—SHEET 1.



Witnesses:

A. S. Bull.

A. A. Olson

Inventor,
Frank C. Schoenherr

by Joshua H. Foss

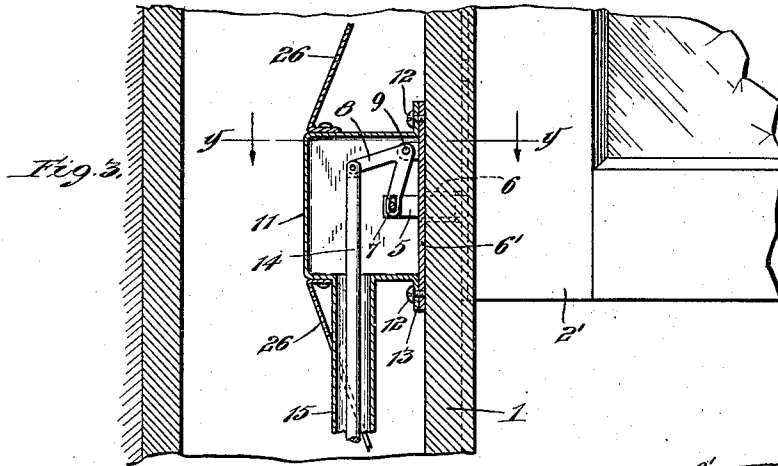
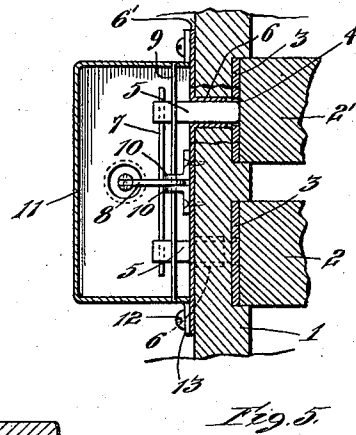
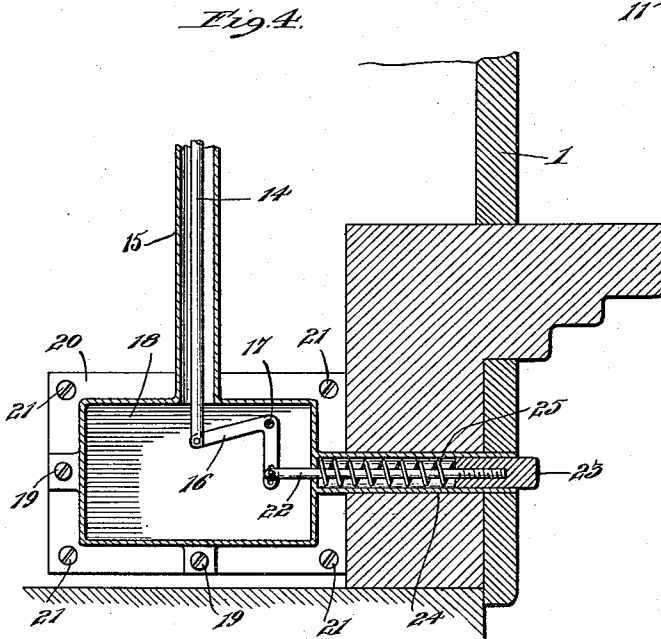
his Attorney

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2 SHEETS—SHEET 2.



Witnesses:

A. S. Quee.

A. A. Olson.

Inventor,
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UNITED STATES PATENT OFFICE.

FRANK C. SCHOENHERR, OF MILWAUKEE, WISCONSIN, ASSIGNOR OF ONE-HALF TO
JULIUS P. C. PACIUS, OF MILWAUKEE, WISCONSIN.

WINDOW-SASH LOCK.

1,156,632.

Specification of Letters Patent.

Patented Oct. 12, 1915.

Application filed July 8, 1914. Serial No. 849,725.

To all whom it may concern:

Be it known that I, FRANK C. SCHOENHERR, a citizen of the United States, and a resident of the city of Milwaukee, county of Milwaukee, and State of Wisconsin, have invented certain new and useful Improvements in Window-Sash Locks, of which the following is a specification.

My invention relates to window sash locks and has for its object the production of mechanism of this character which will be of durable and economical construction and, through the medium of which the sashes of a window may be securely locked in any position in the sash frame.

A further object is the production of locking mechanism as mentioned which may be readily and easily actuated to unlock the sashes and which generally will be of neat and efficient construction.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

With these objects in view my invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which—

Figure 1 is a front elevation of a portion of a window frame and sashes mounted therein to which is applied a sash locking mechanism embodying my invention, Fig. 2 is a fragmental perspective view of the window sashes shown in Fig. 1 detached, Fig. 3 is an enlarged detail sectional view of the upper end portion of the locking mechanism, Fig. 4 is an enlarged detail section taken on line *x—x* of Fig. 1, and Fig. 5 is a section taken on line *y—y* of Fig. 3.

The preferred form of construction as illustrated in the drawings is shown applied to a window construction consisting of a sash frame 1 in which are mounted sashes 2 and 2' for sliding movement in said frame in the usual manner. The lateral edges of the sashes 2 and 2' at one side of the window are provided with metal strips 3 in which are formed spaced openings 4 as clearly shown in Fig. 2.

The mechanism for locking the window sashes in position coöperates with the openings 4 of strips 3, comprising bolts 5 which are mounted in the sash frame 1 so that the outer ends of said bolts register with the openings 4 of the strips 3, as clearly shown

in Fig. 5. Said bolts 5 are slidably mounted in bearings 6 formed upon a plate 6' which is secured rigidly to the frame 1 in the sash weight opening thereof, said bearing portions 6 projecting into corresponding openings 6' formed for the reception thereof in the adjacent wall of the sash frame.

The rearward ends of the bolts 5 are connected so as to effect simultaneous movement of said bolts by means of a connecting rod or yoke 7. Said rod 7 is engaged medially of its ends by one end of a bell crank lever 8 which is fulcrumed upon a rod 9 supported adjacent the lever 8 by ears 10 projecting from plate 6', the ends of said rod 9 being secured in the opposite walls of a rectangular housing 11 inclosing the inner ends of said bolts 5 and the mechanism co-operating therewith. The housing 11 is secured by means of screws 12 to the plate 6', said screws passing through ears 13 formed at the edges of said housing projecting outwardly therefrom. The opposite end of the bell crank lever is pivotally connected with the upper end of a vertically extending rod 14 which is mounted for vertical movement in the tubular housing 15 depending from the housing 11. The lower end of the rod 14 is connected with one end of a bell crank lever 16 which is fulcrumed at 17 in a housing 18 of a form corresponding with that of housing 11 which is secured by screws 19 upon a plate 20 corresponding with the plate 6' which is fastened by screws 21 to the sash frame 1. The opposite end of bell crank lever 16 is connected with the inner end of a stem 22. The outer end of said stem carries a button or presser member 23 threaded thereon which is slidably mounted in a tubular extension 24 of the housing 18. The outer end of button 23 projects exteriorly for manual engagement, the location of said button being preferably adjacent the under side of the window sill as clearly shown in Fig. 1. Interposed between the button 23 and the adjacent wall of housing 18 is a helical compression spring 25. Said spring serves as will be seen to normally press said button 23 outwardly and which in turn, through the operative connection of the inner end of stem 22 with the bolts 5, established by bell cranks 8 and 16 and connecting rod 14, serves to normally press said bolts outwardly for engagement with the openings 4 of the window sashes. With this

arrangement then it will be seen that the window sashes will be normally locked in position in the sash frame, being unlocked through depression of the button 23 which serves, as will be readily observed, to retract the bolts 5 from engagement with openings 4.

In order to prevent contact of the sash weights provided in the sash weight opening of frame 1 with the housing 11, inclined plates 26 are provided which serve to deflect the sash weights in the vertical movement of the latter as will be readily understood.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. The combination of a window frame and a pair of sashes slidably mounted therein, said sashes having spaced openings in corresponding lateral edges thereof; a pair of bolts slidably mounted in said frame adjacent said edges of said sashes for engagement with said openings; means for simultaneously moving said bolts into and out of engagement with said openings, said means comprising a vertically movable member; a bell crank lever arranged between the rearward ends of said bolts; a yoke operatively connecting one end of said bell crank lever with the rearward ends of said bolts, the opposite end of said bell crank lever being

connected with said member whereby, upon vertical movement of said member, said bolts will be simultaneously operated; manually depressible means; and a bell crank lever operatively connecting said depressible means with the opposite end of said lever whereby, upon depression of said depressible means, said member will be actuated, substantially as described.

2. The combination of a window frame and a pair of sashes slidably mounted therein, said sashes having spaced openings in corresponding lateral edges thereof; a pair of bolts slidably mounted in said frame adjacent said edges of said sashes for engagement with said openings; means for simultaneously moving said bolts into and out of engagement with said openings, said means comprising a vertically movable member; a bell crank lever arranged between said bolts having one end operatively connected with one end of said member with said bolts whereby, upon vertical movement of said member, said bolts will be simultaneously operated; manually depressible means; a bell crank lever operatively connecting said depressible means with the opposite end of said lever whereby, upon depression of said depressible means, said member will be actuated to move said bolts to inoperative position; and a compression spring cooperating with said depressible means for normally holding said bolts in operative position, substantially as described.

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

FRANK C. SCHOENHERR.

Witnesses:

JOHN J. MURPHY,
FERD. J. LUEDTKE.