

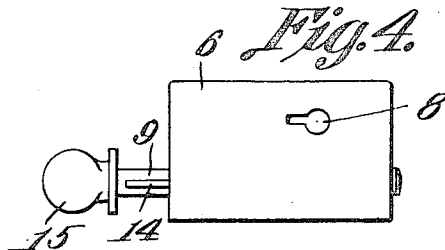
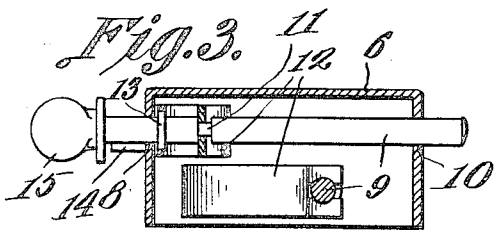
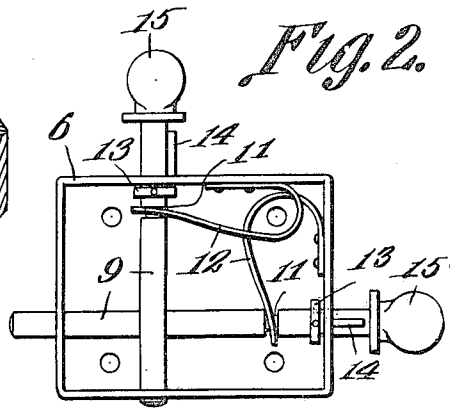
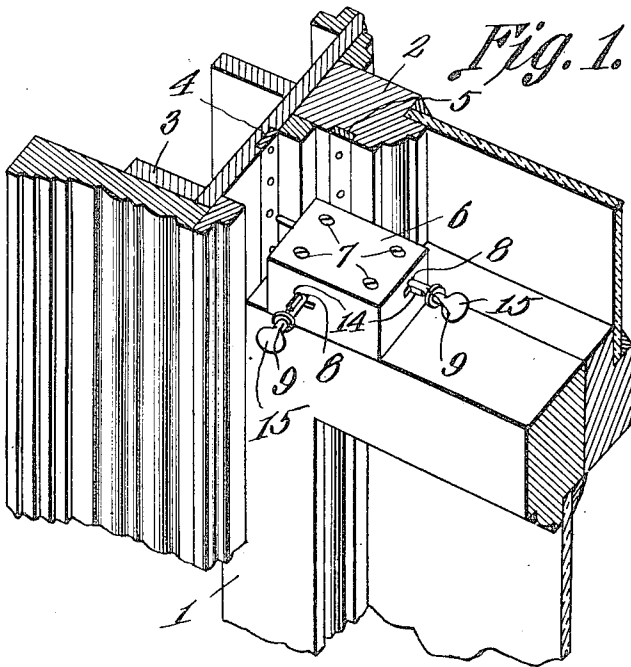
T. J. ELSTON.

SASH LOCK.

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1,060,238.

Patented Apr. 29, 1913.



Witnesses

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UNITED STATES PATENT OFFICE.

THOMAS J. ELSTON, OF BEDFORD, INDIANA.

SASH-LOCK.

1,060,238.

Specification of Letters Patent.

Patented Apr. 29, 1913.

Application filed March 5, 1913. Serial No. 752,243.

To all whom it may concern:

Be it known that I, THOMAS J. ELSTON, a citizen of the United States, residing at Bedford, in the county of Lawrence and State of Indiana, have invented a new and useful Sash-Lock, of which the following is a specification.

This invention relates to an improved form of sash lock.

An object of the present invention is to provide an improved form of sash lock whereby a lock is secured to the upper portion of the lower sash and is adapted to engage an apertured plate secured to the window frame and also to engage an apertured plate secured to the upper sash.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the drawings accompanying this specification and forming a part thereof, the preferable form of my invention is illustrated, in which:—

Figure 1 is a view in perspective illustrating a portion of a window frame and sashes with my improved sash lock secured thereto. Fig. 2 is a bottom plan view of my improved lock. Fig. 3 is a cross sectional view, showing the manner in which the lock is constructed. Fig. 4 is a view illustrating the openings through which the sash bolts extend.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 designates the lower sash and 2 the upper sash, the window frame being generally designated by the numeral 3. The window frame 3 is provided with an apertured plate 4 preferably recessed or counter sunk therein with which my improved sash lock is secured to the upper portion of the sash 1 is adapted to engage. In order that the sashes 1 and 2 may be locked against relative movement, an apertured plate 5 is counter sunk or recessed within the upper sash 2 and

with which my improved sash lock is also adapted to engage.

The improved form of lock as illustrated in Figs. 2, 3 and 4 of the drawings and which constitutes my invention comprises an integral body portion 6 preferably stamped from sheet metal and provided with a number of apertures in the top thereof through which extend the retaining screws 7 by which the casing 6 is rigidly secured to the upper portion of a lower sash 1. The casing 6 is rectangular in outline in order to conform with the general contour of the sash 1 and is provided with an aperture 8 in the front face thereof, the said aperture comprising a circular portion and a restricted passage extending therefrom the entire aperture being keyhole in outline as illustrated in Fig. 4. A sash bolt 9 rotatably engages the said aperture 8 and an aperture 10 which is in alignment therewith and through which the said bolt 9 extends. Said bolt 9 is provided intermediate of its ends with a peripheral groove 11 which is rotatably engaged by the spring 12. A peripheral groove being necessary in order that the bolt may be readily inserted in position in the casing apertures.

Secured to the bolt 9 is a collar 13 which is assembled upon the bolt after one end thereof has been inserted through the side wall of the casing 6 after which it is rigidly secured in place by a pin or other equivalent means. A key 14 is secured to the bolt 9 and extends longitudinally thereof, the said key being of a size such as to fit snugly within the restricted portion of the aperture 8 and the said key stops short of a knob 15 rigidly secured to the outer extremity of the said bolt 9. From this it will be apparent that the bolt 9 will be forced inward by means of the resilient spring 12, it being noted that the end of the spring 12 is bifurcated as shown in Fig. 3, the bifurcations fitting within the peripheral grooves 11 to thereby resiliently and rotatably engage the sash bolt 9, and that the inner extremity of the said bolt will engage one of the apertures formed in the plate 5 to thereby securely lock the sashes 1 and 2 against relative movement. By reason of the collar 13 provision is made whereby the knob 15 may be gripped and the sash bolt pulled outward until the said collar contacts with the inner

5 wall of the casing at which time the key 14
will be withdrawn from the restricted por-
tion of the aperture 8 and the bolt may then
be rotated about a longitudinal axis which
10 brings the key 14 out of alinement with the
said restricted portion of the aperture and
upon the releasing of the knob the bolt is
held against moving inward by reason of
the key 14 contacting with the side walls of
15 the aperture 8 which allows the relative
movement of the sashes 1 and 2. In order
to provide means for locking the lower sash
1 to the window frame a bolt is provided ex-
tending longitudinally of the casing 6 and
the construction of which including a pe-
20 ripheral groove, collar and knob is identical
with the structure just described for the
bolt extending transversely of the casing.
From the foregoing it will be apparent
25 that I have devised an improved form of
lock for locking a sash against movement
relative to a window frame and also a lock
which is adapted to lock the upper and
lower sashes of a window against relative
30 movement. Furthermore the said improved
construction embodies an improved form of
bolt whereby the same may be gripped and
drawn outwardly until no further longitu-
dinal movement thereof is possible and by a
35 suitable rotating thereof the bolt will be
drawn and held from engagement and will
be maintained in this position until such
time that the bolt is further rotated to bring
the key secured thereto in alinement with a
restricted portion of an aperture through
which the bolt extends. The inward move-

ment of the bolt is limited by the flat por-
tion of the gripping knob 15 as will be
readily apparent.

Having thus fully described the inven- 40
tion, what I claim to be new and original
with me is:—

A sash lock for locking the lower sash
against movement with respect to the win-
dow frame and for locking the upper and 45
lower sashes against relative movement,
comprising a casing, sash bolts extending
transversely and longitudinally thereof, said
sash bolts extending through apertures
50 formed in said casing, two of said aper-
tures substantially keyhole shape in outline,
said bolts provided with peripheral grooves
intermediate their ends, springs rotatably
engaging said peripheral grooves, collars
55 secured to said bolts adapted to limit the
movement thereof in one direction, knobs
rigidly secured to the outer extremities of
said bolts adapted to limit the movement
thereof in the opposite direction, a key
60 rigidly secured to said bolts adapted to en-
gage the restricted portion of said keyhole
shaped openings, and said keys adapted to
prevent the longitudinal movement of said
bolts when said keys are out of alinement
65 with said restricted portion.

In testimony that I claim the foregoing as
my own, I have hereto affixed my signa-
ture in the presence of two witnesses.

THOMAS J. ELSTON.

Witnesses:

JAMES D. MARTIN,
CHARLES S. JACKSON.