

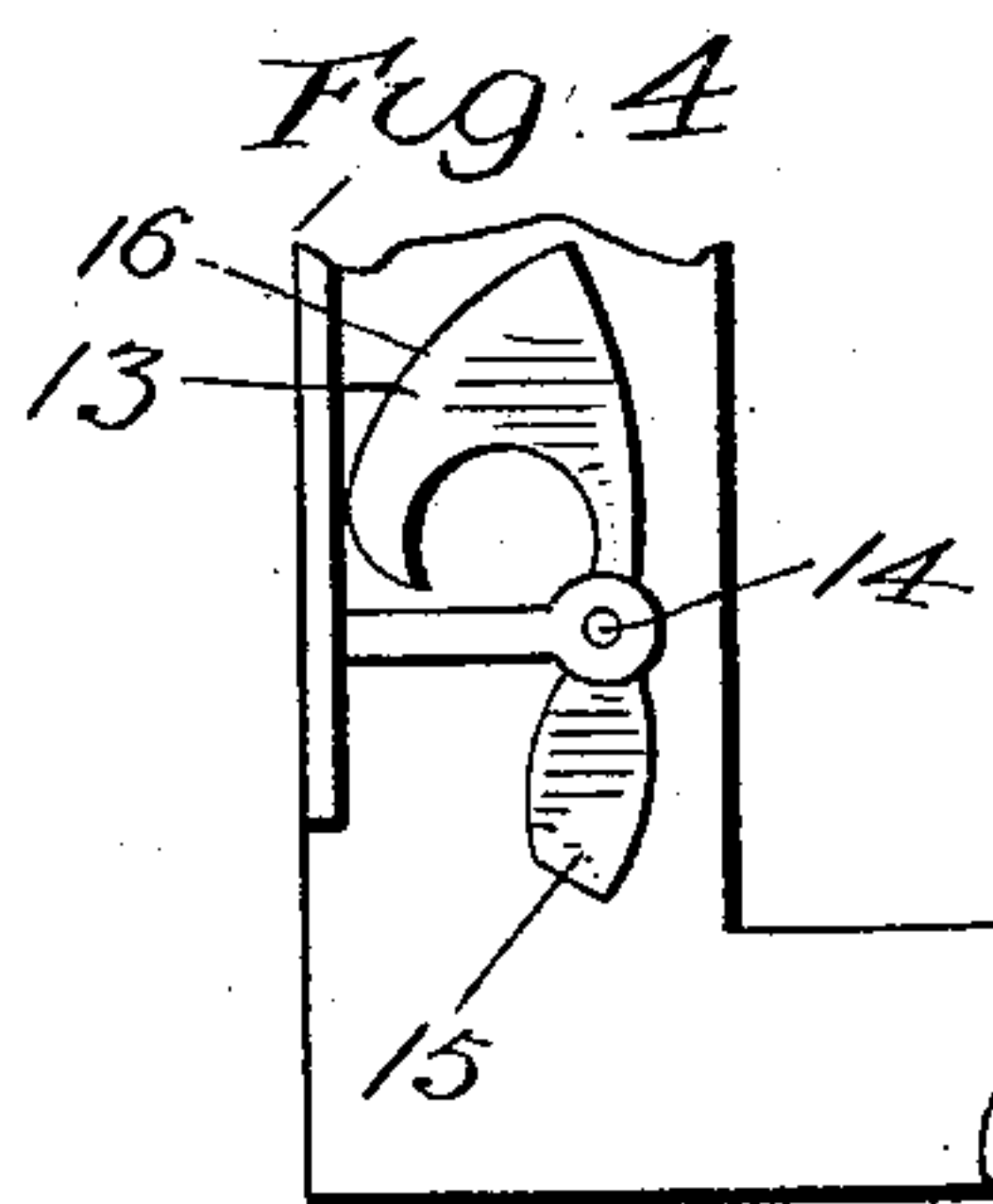
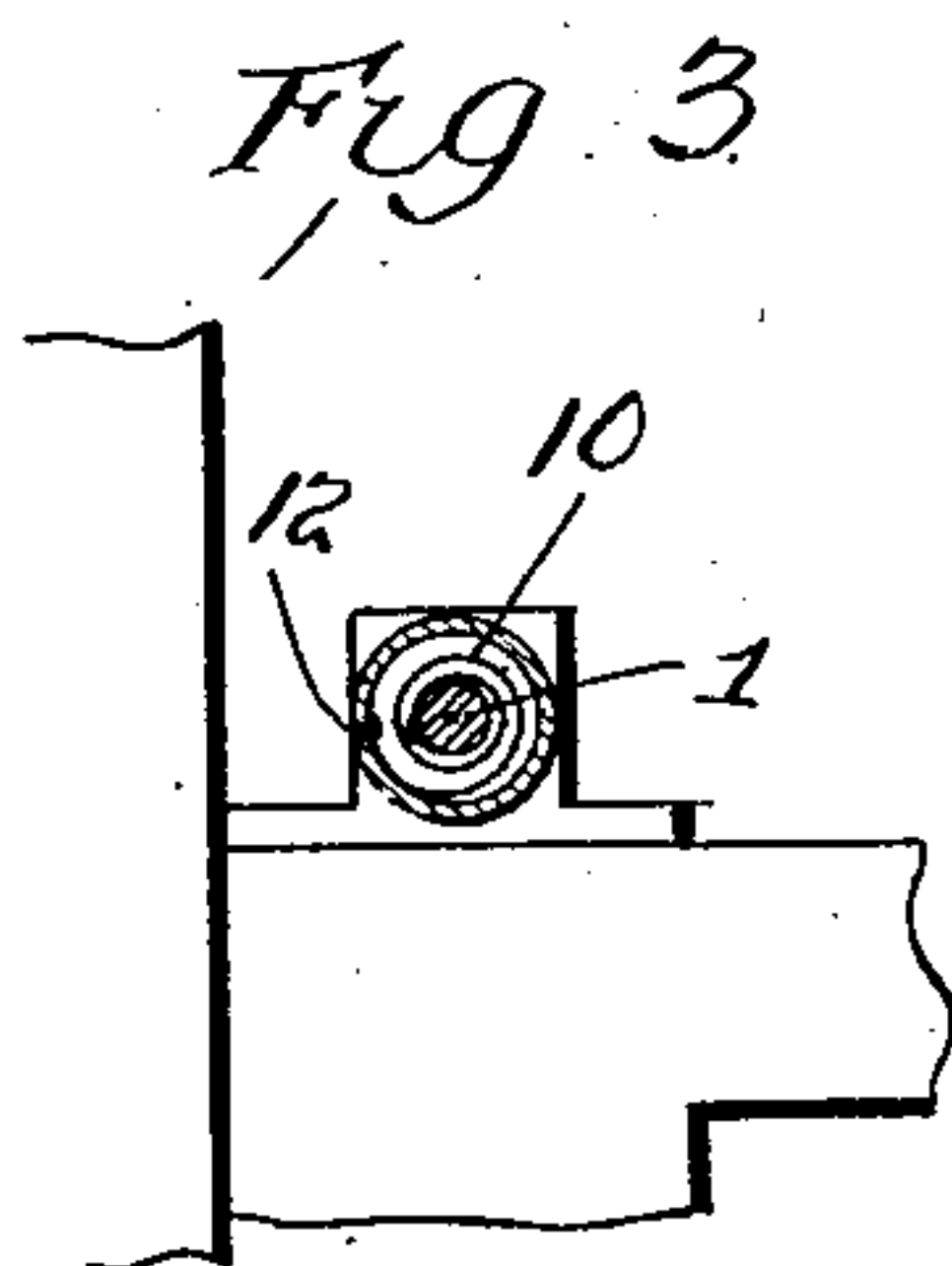
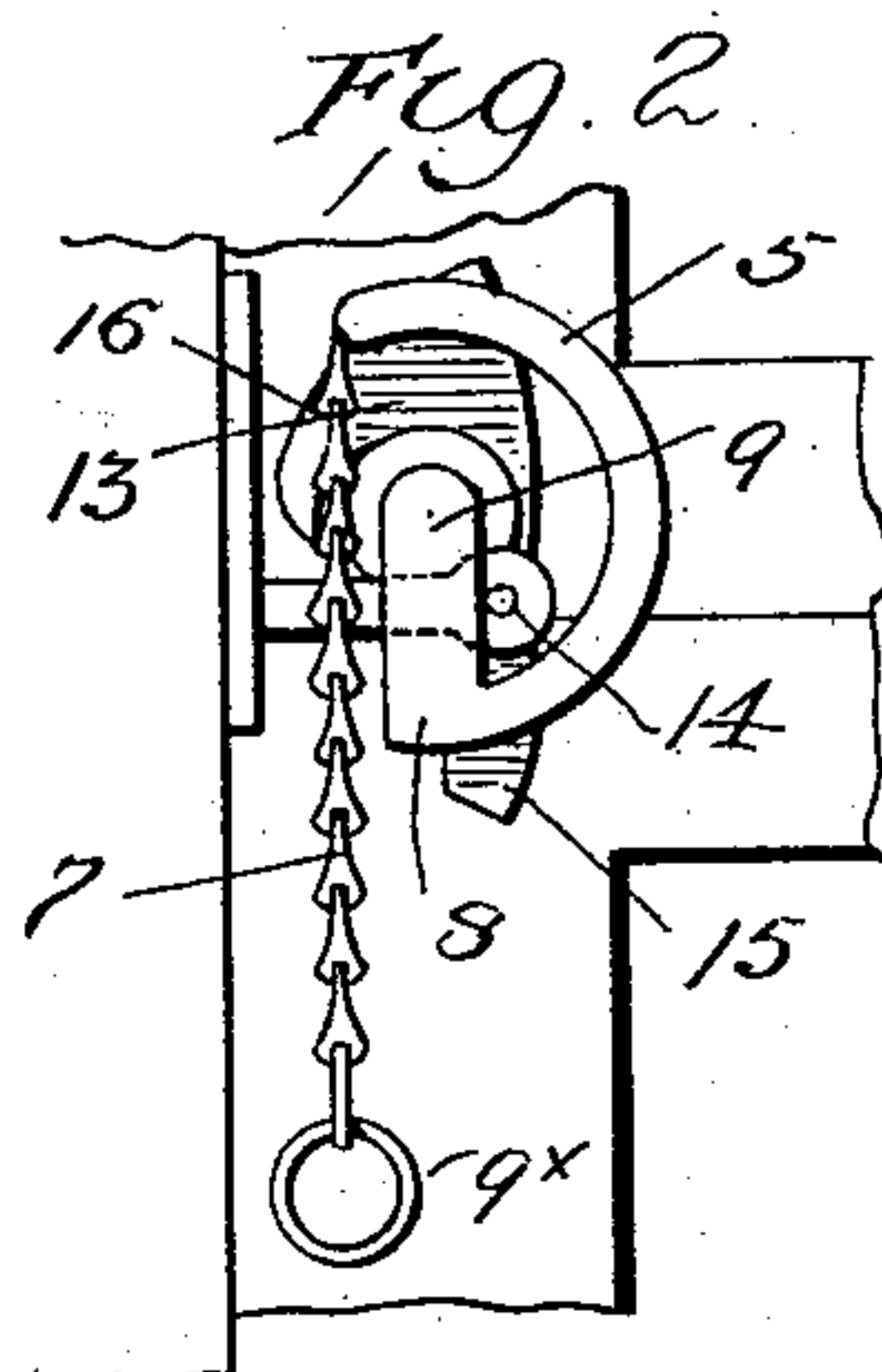
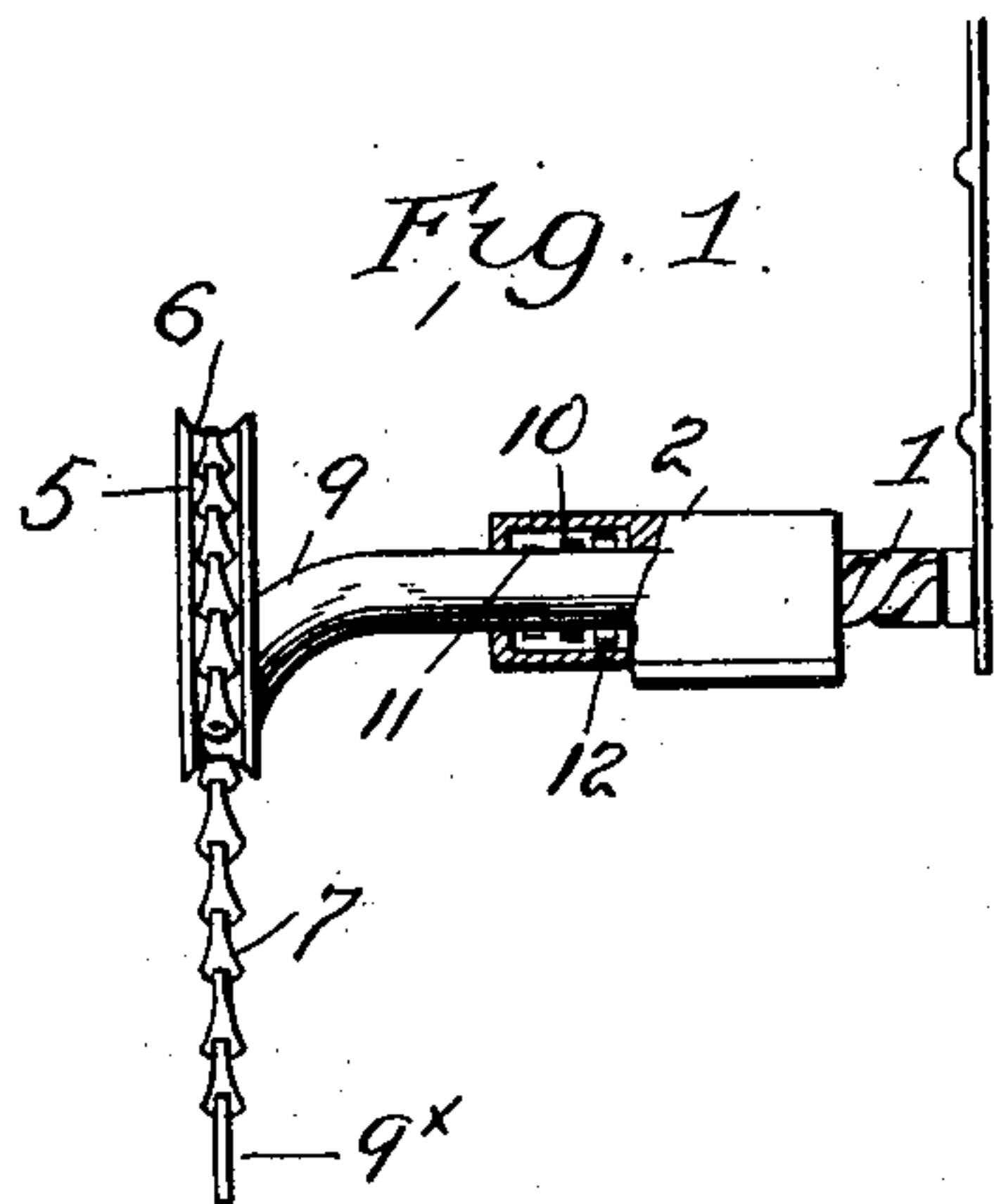
No. 747,617.

PATENTED DEC. 22, 1903.

A. F. W. LORIE.  
SASH FASTENER.

APPLICATION FILED JULY 29, 1903.

NO MODEL.



Attest:

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by Richard C. attys.

# UNITED STATES PATENT OFFICE.

ADOLPH F. W. LORIE, OF DUNEDIN, NEW ZEALAND.

## SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 747,617, dated December 22, 1903.

Original application filed July 2, 1902, Serial No. 114,130. Divided and this application filed July 29, 1903. Serial No. 167,469. (No model.)

*To all whom it may concern:*

Be it known that I, ADOLPH F. W. LORIE, a subject of the King of Great Britain, residing at Dunedin, New Zealand, have invented certain new and useful Improvements in Sash-Fasteners, of which the following is a specification.

My invention relates to an improvement in sash-fasteners, and my present application is a division of that filed by me in the United States Patent Office on July 2, 1902, Serial No. 114,130.

My present invention consists in the features and combination and arrangement of parts hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a side view of the invention, partly in section. Fig. 2 is a front view, and Fig. 3 is a detail cross-sectional view. Fig. 4 is a detail view of the gravity-hook.

As shown in the said application, the invention comprises a holding device in the form of a screw-bolt 1, passing through a nut 2 and engaging with its end a corrugated strip, which is secured to the upper sash, while the nut and screw are secured to the lower sash, the said screw being set against or withdrawn from contact with the said strip to lock or unlock the fastening. The spindle or shank of the screw has a bent part or crank 9 at its end through which said screw is operated. The bent part of the screw has attached to it a semicircular lever 5, provided with a groove 6. This affords a curved bearing over which a chain 7 or other flexible operating means passes, which is suitably attached to said curved bearing at the point 8. The chain hangs down at the side of the window and terminates in a ring 9<sup>x</sup>. When the chain is pulled, it moves the semicircular lever in the direction indicated by the arrow, thus turning the screw and withdrawing the same from the strip 1 to thereby release the fastening. This turning action of the screw to release the fastening winds up a coil-spring 10 within the nut, one end of which spring is secured to the screw at 11 and the other end being secured to the spring casing or nut at 12. On the chain being released the spring automatically thrusts the screw against the strip

and fastens the upper sash in the desired position, and this action, it will be noted, is an automatic one.

In order to hold the lower sash in closed position, I provide locking means, and in the present embodiment of my invention this is in the form of a gravity-hook 13, pivoted to a bracket 14, fixed to the window-casing. This hook has a weighted end 15 and an inclined upper edge 16, and when the lower sash is closed the spindle or shank of the screw engaging the inclined edge will tilt the gravity-hook aside, and immediately the said screw-spindle gets below the point of the hook said hook will swing back into normal position with its hook end over the spindle of the screw, thus holding the same, together with the lower sash, down in closed position. Of course the upper sash may be in a partly open or closed position at this time, and if locked by the screw to the lower sash it will be held firmly in the position to which it has been adjusted.

I claim—

1. In combination in a sash-fastener, a nut, a screw working through the same to engage a part of the upper sash, a flexible hand operating connection for the said screw and a curved bearing connected with the screw about which the hand operating connection extends and to which it is attached, substantially as described.
2. In combination in a sash-fastener, a nut, a screw working through the same to engage a part of the upper sash, a flexible hand operating connection for the said screw and a curved bearing connected with the screw about which the hand operating connection extends and to which it is attached, and a spring for returning the hand operating connection to normal position and the screw into locking position.
3. In combination in a sash-fastener, a nut, a screw working through the same to engage a part of the upper sash, means connected with the inner end of the screw and extending vertically down along the sash for retracting the screw and means for operating the screw automatically into locking position, substantially as described.
4. In combination in a sash-fastener, a nut,

a screw working through the same to engage a part of the uppersash, and locking means on the frame engaging the screw, substantially as described.

- 5 5. In combination in a sash-fastener, a nut, a screw working through the same to engage a part of the uppersash, and locking means on the frame engaging the screw, said locking

means consisting of a gravity-hook, substantially as described. 10

In testimony whereof I affix my signature in presence of two witnesses.

ADOLPH F. W. LORIE.

Witnesses:

WALTER DONALDSON,  
C. S. MIDDLETON.