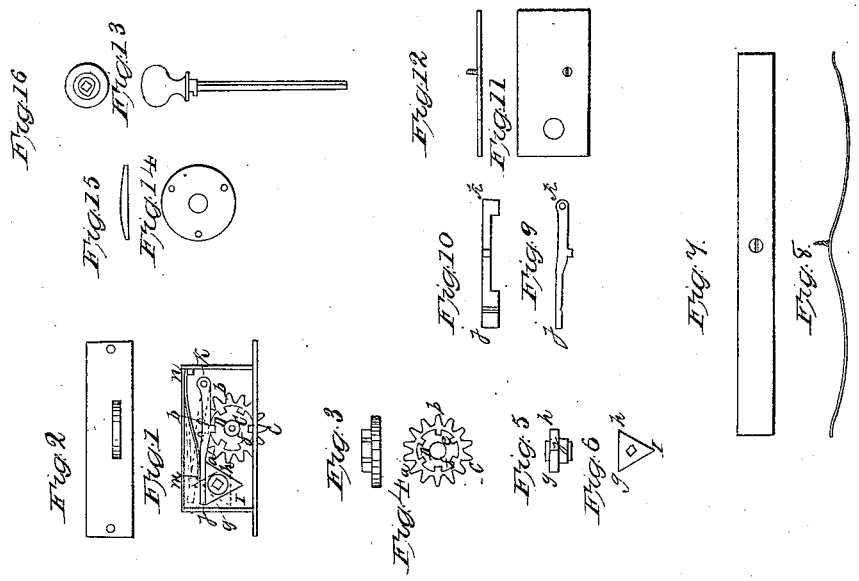
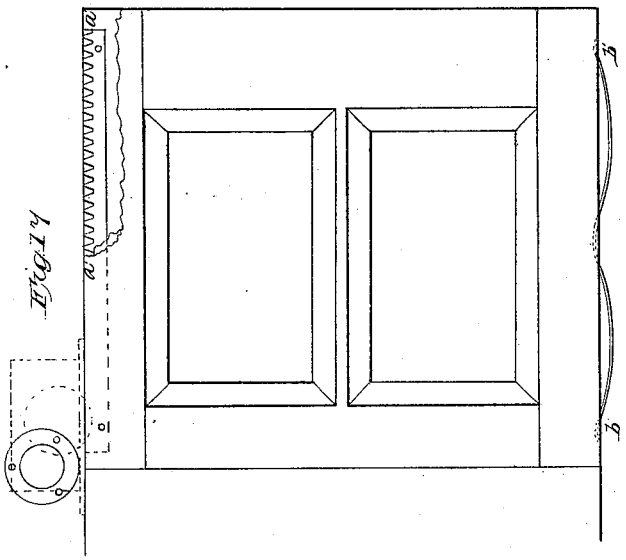
J. O. Harris,

Sash Fastener.

No. 46,900. Patented Mar. 21, 1865.





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UNITED STATES PATENT OFFICE.

J. O. HARRIS, OF OTTAWA, ILLINOIS.

IMPROVED WINDOW-SASH SUPPORTER.

Specification forming part of Letters Patent No. **46,900**, dated March 21, 1865.

To all whom it may concern:

Be it known that I, J. O. HARRIS, of the city of Ottawa, county of La Salle, and State of Illinois, have invented a new and Improved Window-Sash Supporter or Sash-Lock; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

My invention consists in providing the double ratchet-wheel represented by Figures 1 and 4 in the accompanying diagrams, *a b c* of said figures representing a wheel with beveled cogs, *d e f* representing a smaller wheel attached to wheel *a b c*, which said last-mentioned wheel has rectangular cogs on its circumference, also, the tumbler *g h i*, as represented in Figs. 1, 5, and 6 in the accompanying drawings; also, the lever *j k*, as represented in Figs. 1, 9, and 10, to which lever there is attached a pawl, *l*, as will be seen by reference to the figures last mentioned. Said lever is held in position by the spring *m n*, as seen in Fig. 1 of the accompanying drawings, which said articles of machinery, when placed together as intended by the said inventor, form diagram or Fig. 1 of the accompanying drawings. Through the tumbler *g h i* is a key-hole, in which the key, as represented in Fig. 13 of the annexed or accompanying drawings, is intended to work. Said pieces of machinery, when put together, are inclosed in a frame or box, through the bottom of which the ratchet-wheel *a b c* protrudes, the length of the cogs on its circumference, as represented in diagram 2 of the accompanying drawings. This ratchet-wheel, protruding through said frame, as aforesaid, works in the rack *a' a'* of diagram 17 of the accompanying drawings as the window is raised or lowered. The window-sash in which the rack is set is kept closely and firmly to the side of the window-frame, in which the sash-supporter or lock is placed by means of the elliptic spring on the opposite side of the sash. Said spring is represented in diagram 17 of the accompanying drawings by *b' b'*.

The smaller ratchet *d e f* is used in conjunction with the lever *j k* and the pawl *l*, as aforesaid, in fastening and holding the window at any given height desired, as follows: By turning the key, inserted through the tumbler half around, one point or corner of the tumbler rests in the niche made in the lever at the point where a line drawn through the center of the tumbler would strike the lever, the line being perpendicular to the lever. By this movement the lever is thrown up so that the pawl *l* is free of the cogs in the smaller ratchet-wheel *d e f*. When in this position, the window is raised or lowered, as desired. By again turning the tumbler half around the lever descends by means of the said spring, and the lever rests upon one of the faces of the tumbler, and the pawl rests in one of notches or between two of the rectangular cogs of the ratchet-wheel *d e j*, by means of which the window is held firmly in any given place or at any height desired, on account of the two ratchet-wheels being fastened together and the cogs of the larger ratchet-wheel being crowded in the rack, as aforesaid, by the spring on the opposite side of the sash, as before described.

Having now described the construction and operation of my improved sash-lock, I will now specify what I claim as new therein and desire to secure by Letters Patent—

The combination and arrangement of the two ratchet-wheels, lever, pawl, and spring aforesaid, with the tumbler *g h i*, operated by a removable key, substantially as and for the purposes shown and described.

J. O. HARRIS.

Witnesses:
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