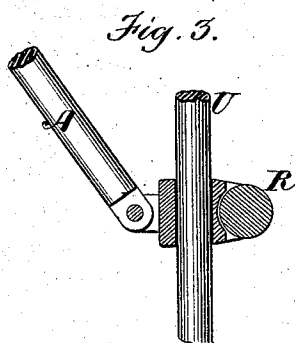
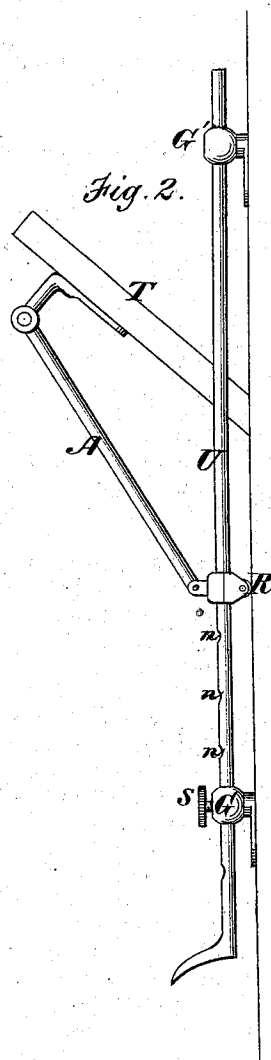
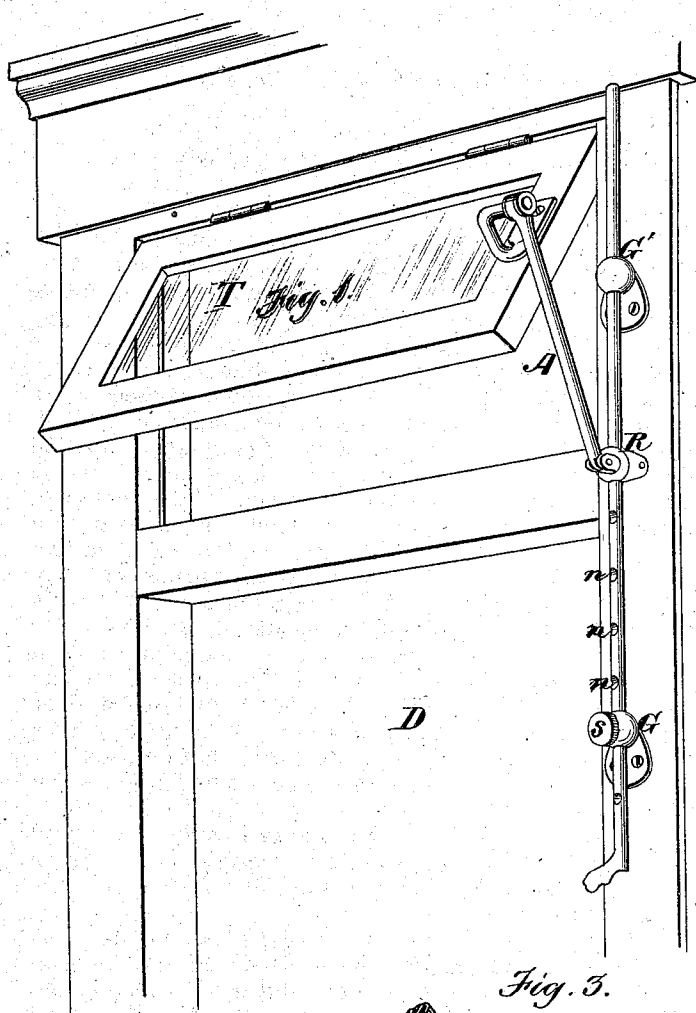


J. F. WOLLENSAK.

Transom Lifters and Locks.

No. 136,801.

Patented March 11, 1873.



Witnesses.
L. F. Brown.
M. Church.

Inventor.
J. F. Wollensak.
by his Attys.
Hill & Ellsworth

UNITED STATES PATENT OFFICE.

JOHN F. WOLLENSAK, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN TRANSOM LIFTERS AND LOCKS.

Specification forming part of Letters Patent No. 136,801, dated March 11, 1873.

To all whom it may concern:

Be it known that I, JOHN F. WOLLENSAK, of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Transom Lifter and Lock; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a perspective view, Fig. 2 is a side elevation, and Fig. 3 is a section.

Similar letters of reference in the accompanying drawing denote the same parts.

Transom-lifters have heretofore been constructed with a long upright rod or handle jointed at its upper end to a lifting-arm which extends to and is connected with the side or edge of the transom-sash, the sash being opened or closed by a vertical movement of the long rod. When thus constructed the upright rod is liable to be bent by the weight of the transom, owing to the want of proper support at and above the point of junction between the long rod and the lifting-arm. The object of my invention is to remedy this difficulty by constructing and arranging the parts so that they will receive the proper support at the proper points; to accomplish which I first prolong the upright rod to some distance above the point of junction with the lifting-arm, and pass the end thus prolonged through a guide affixed to the wall above said joint; and, secondly, I provide the upright rod with a friction-roller at said point of junction arranged to bear against the wall and help sustain the weight of the sash, substantially as I will now proceed to set forth.

In the drawing, D is the door; T, the transom-sash, pivoted at top, bottom, or middle, as preferred; A, the lifting-arm that connects the sash to the upright rod; U, the upright rod, passing through two guides, G G', one above and one below the point of junction with the lifting-arm; R, a friction-roller secured to the lifting-rod so as to bear against the wall and support said rod at its point of junction with the lifting-arm; *n n*, notches cut in the upright rod to receive the end of the set-screw; and *s*, a set-screw arranged in connection with the lower guide and the rod U so as to be convenient of operation, for the purpose of fixing the transom at any required angle. The upright rod is thus supported at three points, to wit, above, below, and at the joint where it sustains the weight of the transom. It can also be adjusted and securely fastened so as to open the sash as much or as little as may be desired, and to lock it in that position.

Having thus described my invention, what I claim as new is—

1. The roller R, arranged at the junction of the lifting-arm A and upright rod U, in a transom-lifter, substantially as and for the purpose described.

2. The guide G', arranged above the junction of the lifting-arm and upright rod, in combination with the prolonged rod U, the guide G, and arm A, substantially as and for the purpose specified.

JOHN F. WOLLENSAK.

Witnesses:

C. G. HÜLCHE,
JOHN H. SHINKEL.