

A. A. JAQUA.
Window Blinds, &c.

No. 156,400.

Patented Oct. 27, 1874.



Fig. 4.

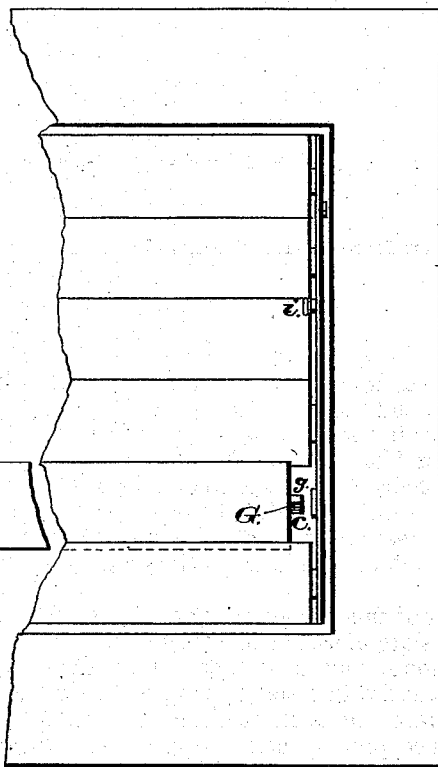


Fig. 5.

Fig. 6.

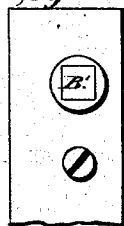


Fig. 2.

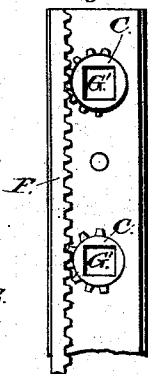


Fig. 1.

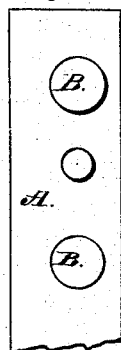
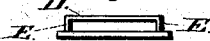


Fig. 3.



Witness.

Thos. G. Ellis.
Arthur Glomner

Inventor.

Amos A. Jaqua

UNITED STATES PATENT OFFICE

AMOS A. JAQUA, OF NEW YORK, N. Y.

IMPROVEMENT IN WINDOW-BLINDS, &c.

Specification forming part of Letters Patent No. **156,400**, dated October 27, 1874; application filed September 22, 1874.

To all whom it may concern:

Be it known that I, AMOS A. JAQUA, of the city, county, and State of New York, have invented a certain new and useful Improvement in Device for Holding and Operating Blind-Slats from their Ends; and to enable others skilled in the art to make the same, I will proceed to describe it by referring to the drawing, in which the same letters indicate like parts.

The object of this invention is to secure and operate the slats more perfectly than has hitherto been done; and to this end it consists, more particularly, in a slat having one round and one square tenon, in combination with a suitable orifice, pinion, rack, and case, all constructed and operated as will hereinafter be more fully and particularly set forth.

A is an elongated plate or case, having rim-edges E and bearing-orifices B to receive the hub-bearings B' of the pinion C. F is a rack, the teeth of which are fitted to work into and between the teeth of the pinion C and the rim or edge E of the case or plate A. The cap D is provided with corresponding bearing-orifices with the case A. The pinion C is provided with an oblong or square orifice, G', into which the square tenon G of one end of the slats is compressed before being placed in the door or blind frame.

The block from which the slats are sawed is cut the proper length, and a tenon is formed on its ends the desired thickness before being sawed into slats, and the tenon on one end of said slats is rounded in the common way. The opposite end is left square to be compressed into a square or oblong orifice of a pinion or

tooth wheel. This pinion is provided with hub-bearings on each side, which are fitted closely and turn freely in bearing-orifices in the elongated case and cap, which is secured into a rabbet or groove formed in the edge of a door or blind-stile, where the slats are to work. A tooth-rack is fitted into said case, between the rim of the case and the pinion, so that the pinion-teeth shall fit closely and work freely in the teeth of the rack, and so that the pinion, through the action of the rack, will operate the slats to open and close uniformly one with the other, and the slats may be locked in an open or closed condition by a thumb or lever catch working into the teeth of the rack at any desired point.

These slats, operating-rack, and pinion case may be arranged and secured in the edge of the stile of the door or blind at the time of putting the frame together, or afterward, as desirable.

What I claim, and desire to secure by Letters Patent, is—

1. The case A, rack F, pinion C, having square orifices G' in the bearing-hubs B' to receive the square tenon G, substantially as and for the purpose set forth.

2. A slat having one round and one square tenon, in combination with a square orifice, pinion C, rack F, and case A, as and for the purpose set forth.

AMOS A. JAQUA.

Witnesses:

ARTHUR HOSMER,
WM. G. SIMMONS.