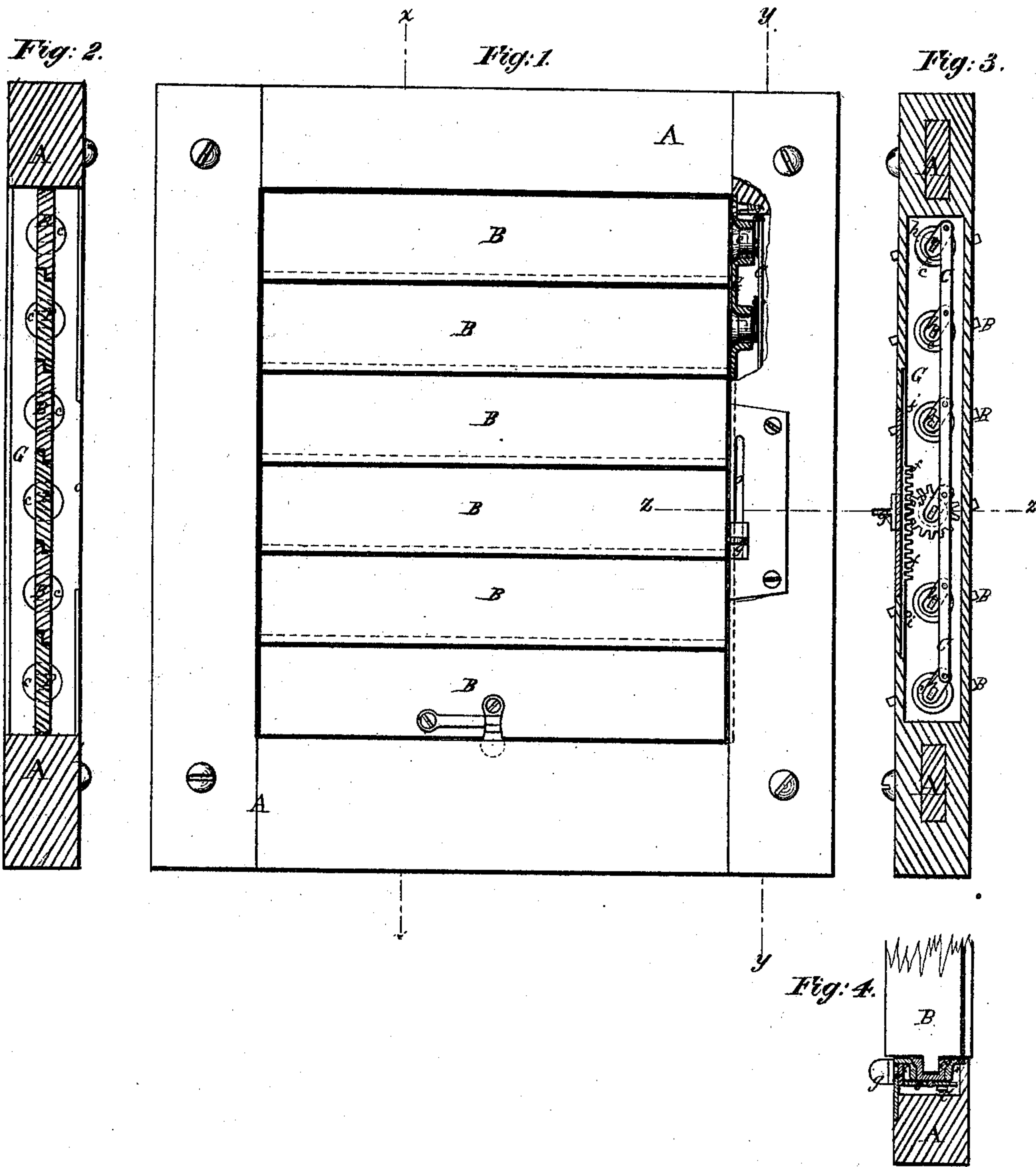


A. A. Jagua,
Window Blind.

No. 97,514.

Patented Dec. 7. 1869.



Witnesses:
Fred. Haynes
M. J. Haynes

A. A. Jagua

United States Patent Office.

AMOS A. JAQUA, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND DAVID PARKER, OF SAME PLACE.

Letters Patent No. 97,514, dated December 7, 1869.

IMPROVED WINDOW-BLIND.

The Schedule referred to in these Letters Patent and making part of the same.

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 new and useful Improvement in Window-Blinds; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form part of this specification.

This invention relates to blinds having oscillating slats; and

It consists in a novel means of supporting the slats at one end, in connection with machinery within the slide for operating or adjusting the slats, whereby the blind is not only rendered more ornamental by the removal of the rod and its connections out of sight, but also more durable by the protection thereby afforded said parts.

Referring to the accompanying drawings—

Figure 1 represents a side view of a window-blind constructed according to my invention, having a part of the stile broken away for illustration of the slat-adjusting machinery arranged therein;

Figure 2 represents a vertical section of the same, taken in the line *x x*, fig. 1, and at right angles to said figure;

Figure 3 represents a similar view of the same, taken in the line *y y*, fig. 1; and

Figure 4 represents a horizontal section of the stile thereof, taken in the line *z z*, figs. 1 and 3.

Similar letters of reference indicate corresponding parts in the several figures.

A is the frame of a window-blind, and B its movable slats.

These slats B, instead of being made merely to lap each other at their edges, when closed or folded together, thereby forming the irregular surface formed by blind-slats of ordinary construction when closed, have formed in each edge, but upon their opposite sides, a rebate, as shown in fig. 2, for the purpose of allowing the slats, when closed, to form a plane or smooth surface by the fitting within each other of the rebates of the adjoining slats, as also shown in same figure. This not only gives the blind a more finished appearance when closed, but also more effectually excludes dust and other extraneous matter from the apartment, and also offers a more effectual resistance to any attempt at forcible entrance from without.

The tenons at one end of these slats, instead of being rounded and fitted in holes bored in the stile of the blind, in the usual way, are left square, and received within pivoted metal sockets, *c*, which are fitted to turn within bearings formed in a metal plate screwed or otherwise secured to the inner edge of the stile.

These pivoted sockets *c* are provided, upon their outer ends, with arms or cranks, *h*, which are connected with each other by a rod, *O*, as shown in fig. 3, so that the oscillation of one slat will insure a like movement of them all.

One or more of these pivoted sockets *c* are constructed or provided with spur-wheels or pinions, *s*, for gearing with a rack, *f*, as shown in fig. 3.

This rack *f* has a longitudinal sliding movement up or down, being retained in place, and guided by means of fixed pins or studs, *i i*, and is operated from without, for adjustment of the slats, by means of a thumb-piece, *g*, working through a slot, *o*, formed in the stile.

The slats B, when closed down, may be secured or locked in that position by means of a latch, *b*, pivoted to the bottom slat, and allowed to swing down into a notch or recess formed in the bottom rail of the blind, indicated by dotted lines thereat in fig. 1.

The latch *b* may also be locked by a pivoted arm, *j*, as shown. Any other locking-device may, however, when desirable, be substituted for the one described.

When desirable, the pivoted sockets *c* may all be provided with the pinions *s*, and the rack *f* may be made to extend sufficiently above and below for gearing with the pinions, thereby dispensing with the use of the rod *O*, and the cranks or arms *h*.

What is here claimed, and desired to be secured by Letters Patent, is—

1. The sockets *c*, for receiving the ends of the slats, and for the attachment of the cranks or pinions, in combination with the perforated plate *G*, substantially as herein described.

2. The combination of the plate *G*, the pivoted sockets *c c*, arms *h h*, rod *O*, pinions *s*, and rack *f*, the whole forming an apparatus for adjusting the slats within the stile of the blind, substantially as and for the purpose herein specified.

AMOS A. JAQUA.

Witnesses:

FRED. HAYNES,
R. E. RABEAU.