W. H. TAPPAE.

Machinery for Making Blinds.

No. 166,319. Patented Aug. 3, 1875.

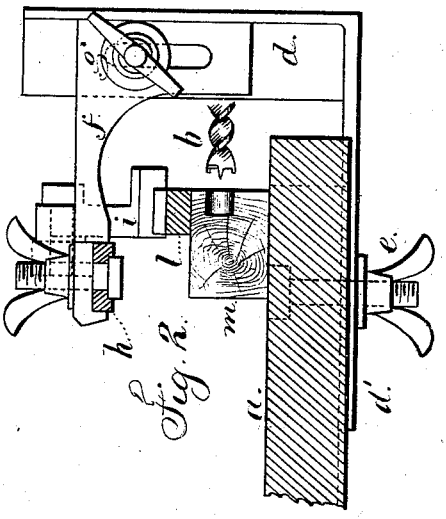

Fig. 2.

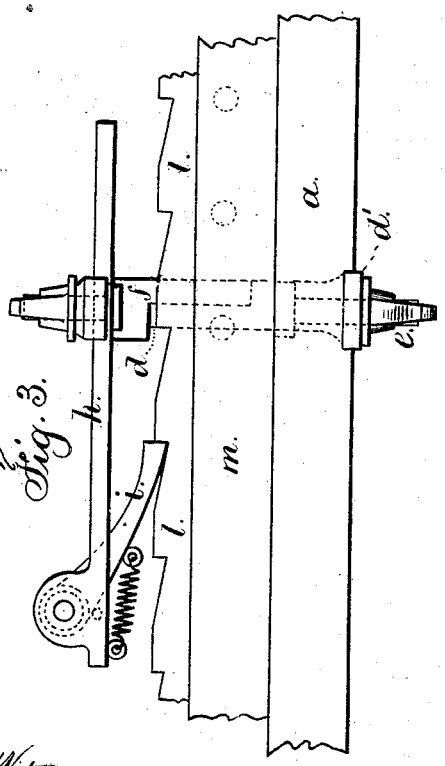

Fig. 3.

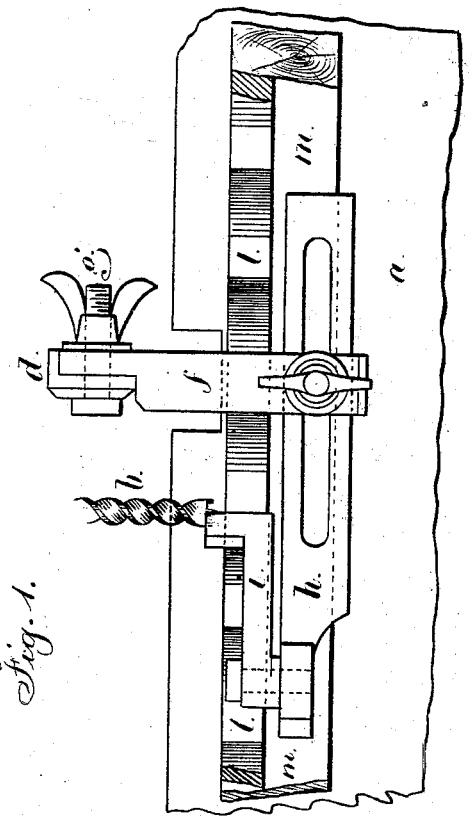

Fig. 1.

Witnesses

Chas H. Smith

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UNITED STATES PATENT OFFICE.

WILLIAM H. TAPPAE, OF NEW YORK, N. Y., ASSIGNOR TO CHARLES WHITLOCK, OF SAME PLACE.

IMPROVEMENT IN MACHINERY FOR MAKING BLINDS.

Specification forming part of Letters Patent No. **166,319**, dated August 3, 1875; application filed December 30, 1874.

To all whom it may concern:

Be it known that I, WILLIAM H. TAPPAE, of the city and State of New York, have invented an Improvement in Machinery for Making Blinds, of which the following is a specification:

In boring the holes in blind-stiles it is usual to mark the edges at the places where the holes are to be bored by the boring-machine. This is tedious and expensive, as considerable time is consumed, because the marking is usually done with a pencil to a gage, and the workman has to move the stile along by hand and adjust it to the proper place previous to boring each hole.

Machines have been made in which the boring-bit is moved along by a ratchet, and the stile is clamped stationary. This renders it necessary to construct a special machine adapted to the moving-tool.

My invention relates to an attachment that may be applied to an ordinary boring-machine, which attachment consists in a pawl upon an arm that is adjustably connected to a standard, so that the end of the pawl can be positioned in a vertical plane passing lengthwise of the axis of the bit, so as to accommodate different thicknesses of stiles, and upon the stile a rack-bar is placed and retained by pins, and the said rack-bar and pawl determine the positions in which the holes are bored successively for the ends of the slats.

In the drawing, Figure 1 is a plan, Fig. 2 is a cross-section, and Fig. 3 a front elevation, of my improved device for determining the positions of the holes to be bored in blind-stiles.

The bed *a* of the machine is of the usual character, and is adjustable vertically, and the boring-tool *b* is in a fixed position, and revolved by competent power. The standard *d* is attached by the horizontal slotted arm *d'* and screw-clamp *e*, and it is preferable that this arm *d'* enter a groove in the under side of the bed, so that the same may be guided thereby, as the apparatus is adjusted transversely of the bed. Upon the standard *d* the arm *f* is attached adjustably by the screw *g*, and this arm *f* extends over the bed *a* and carries at its end the pawl-bar *h*, with the spring-pawl *i* at the end, and this bar *h* is slotted, so as to be moved longitudinally to position, the end of the pawl in the vertical plane passing longitudinally of the boring-tool, and the rack-bar *l* is adapted to being placed upon the blind-stile *m* and receiving the end of the pawl.

It will now be understood that the rack-bar is to be divided into spaces or teeth corresponding to the distance between one hole and the next, and it is to be laid in the correct position upon the stile and secured by tacks or pins, and then the workman bores the holes in succession in the usual manner, but uses the rack-bar and pawl as the gages for determining the position of the holes instead of marking the places as heretofore usual, and this is done without the operator having to follow by sight any marks.

I claim as my invention—

The standard *d*, arm *f*, adjustable pawl-bar *h*, and pawl *i*, in combination with the rack-bar *l*, applied to the blind-stile, for the purposes and as set forth.

Signed by me this 24th day of December, A. D. 1874.

WILLIAM H. TAPPAE.

Witnesses:

GEO. T. PINCKNEY,

CHAS. H. SMITH.