

Sept. 8, 1925.

J. F. ROSE

1,552,881

SPINDLE MOLDING MACHINE FOR WOOD

Filed Feb. 29, 1924

2 Sheets-Sheet 1

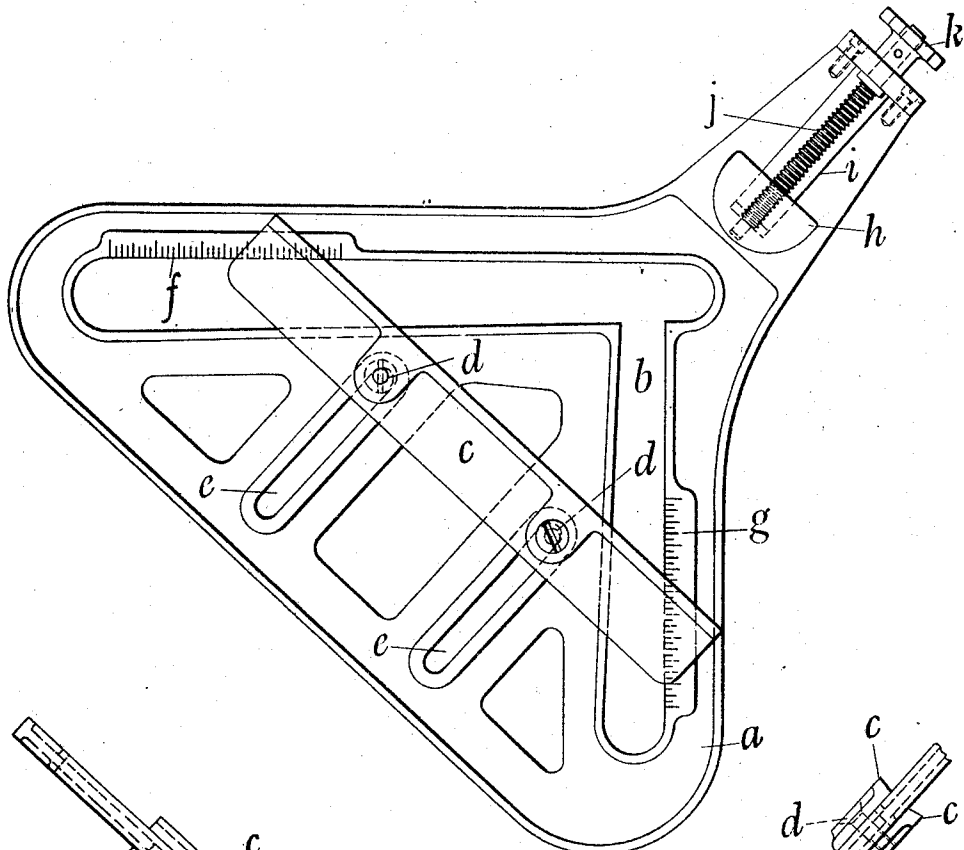


Fig. 1

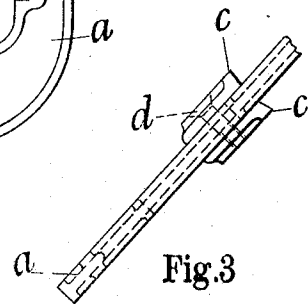


Fig. 3

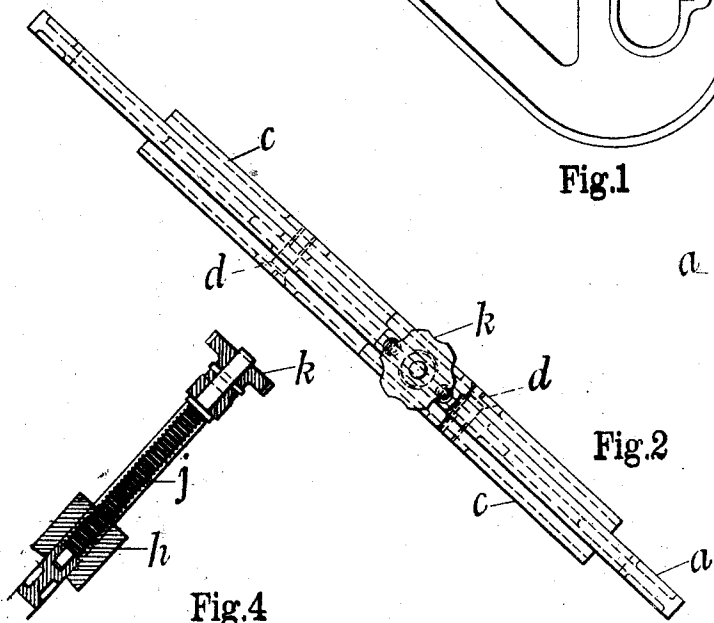


Fig. 2

Fig. 4

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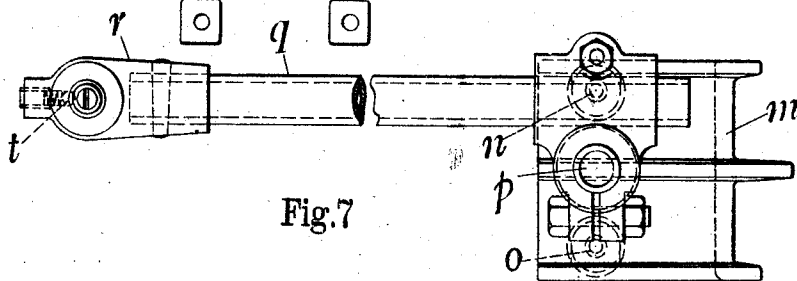
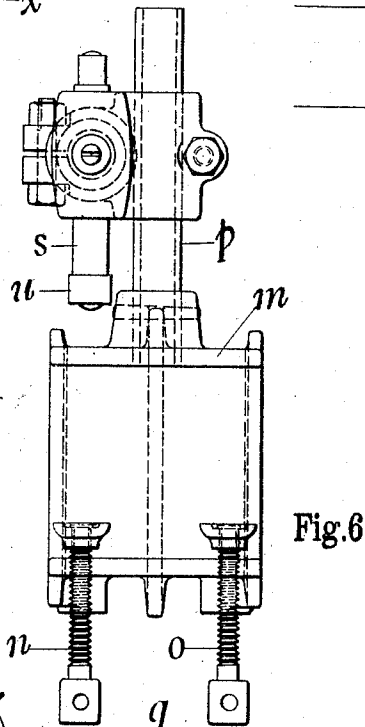
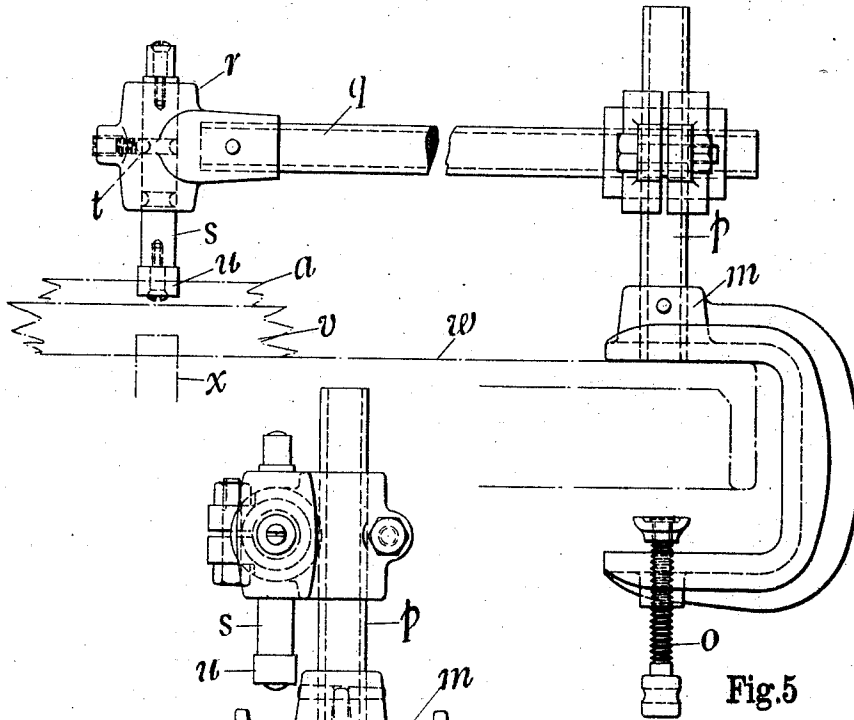
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SPINDLE MOLDING MACHINE FOR WOOD

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2 Sheets-Sheet 2



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Patented Sept. 8, 1925.

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UNITED STATES PATENT OFFICE.

JAMES FRANK ROSE, OF ROCHDALE, ENGLAND.

SPINDLE-MOLDING MACHINE FOR WOOD.

Application filed February 29, 1924. Serial No. 696,031.

To all whom it may concern:

Be it known that I, JAMES FRANK ROSE, a subject of the King of Great Britain and Ireland, and resident of Modern Joinery Works, Pilling Street, Norden, Rochdale, in the county of Lancaster, England, have invented certain new and useful Improvements Relating to Spindle-Molding Machines for Wood (for which I have made application for Letters Patent in Great Britain, No. 10,888, dated April 21, 1923, Patent No. 208,472), of which the following is a specification.

This invention relates to spindle molding machines and has for its object to provide simple and effective means whereby the said machines can be readily adapted for the production of the grooves in stair stringer for the reception of the stair treads and risers or for similar repetition work.

My invention relates more particularly to that type of mechanism in which a templet having slots therein corresponding with the grooves to be produced in the stringer is clamped to the latter and a bracket carries at its outer end a downwardly projecting spindle with a guide pin thereon which extends into said slot in the templet immediately over the vertical cutter spindle.

My invention comprises the improved details of construction and arrangement hereinafter described and claimed.

Referring to the two accompanying sheets of explanatory drawings:

Figure 1 is a plan view of the improved templet constructed in accordance with my invention.

Figure 2 is an end view looking from the right hand upper corner of Figure 1.

Figure 3 is an end view of part of the templet looking from the right hand lower corner of Figure 1.

Figure 4 is a detail sectional view of the upper right hand corner of the templet shown in Figure 1.

Figure 5 is a front elevation. Figure 6 an end elevation and Figure 7 a plan view of the bracket which is used in conjunction with the templet shown in Figures 1 to 4.

The same reference letters in the different views indicate the same or similar parts.

The templet *a* which has the slots *b* therein corresponding with the grooves to be produced in the stringer has thereon at its opposite sides cross members or guides *c* which are adjustably secured in place by

two studs *d* which pass through elongated slots *e* in the templet. Setting scales *f*, *g* are provided adjacent the slot *b*. One side of the stringer bears against the guide *c* whilst the other side is clamped by a part *h* which extends to the opposite sides of the templet and is guided in the latter so that it does not rotate but is traversed along the slot *i* by the screw *j* turned by the hand wheel *k*.

With the arrangement of templet described and illustrated, the guide *c* is set to suit the dimensions of the stringer and when the stringer or stringers for say the right hand side of a stairway have been grooved, the corresponding stringer or stringers for the left hand side can be grooved by placing the stringer on the opposite side of the templet.

The part *m* is clamped upon the table of the spindle molding machine by the two clamps *n*, *o* and carries an upright spindle *p* to which is secured at an adjustable height a horizontal arm *q* carrying at its outer end a fitting *r* in which can slide a vertical spindle *s* adapted to be locked in its service and out of service positions respectively by the ball catch *t* as shown. The lower end of the spindle *s* carries a roller *u* which is adapted to enter the slot *b* in the templet *a*. *v* indicates the stringer, *w* the table of the machine and *x* the vertical cutter.

If the roller *u* be of the same diameter as the cutter *x*, the groove produced by the latter will be of the same width as the slot in the templet. By fitting rollers of different sizes relatively to the cutter the dimensions of the groove produced by the cutter with the use of the templet can be altered.

I claim:

1. In templets of the type specified, in combination, a reversible pattern plate with pattern and securing slots therein, adjustable similar guide pieces at the opposite sides of the pattern plate, means passing through slots in the plate and securing the two guide pieces simultaneously thereon, clamping means for the workpiece operative at both sides of the pattern plate, and means for adjusting said clamping means, as set forth.

2. In templets of the type specified, in combination, a reversible pattern plate with pattern slots and elongated bolt holes therein, adjustable similar guide pieces for one side of the workpiece at the opposite sides

of the pattern plate and extending across the pattern slots, studs passing through the bolt holes in the pattern plate and securing the two guide pieces simultaneously thereon, 5 a clamping member for the opposite side of the workpiece having a threaded aperture therethrough and extending to the opposite sides of the pattern plate to co-operate with the two guide pieces and to prevent 10 its rotation, and a screw secured in the pattern plate against endwise movement passing through and adjusting the position of said clamping member, as set forth.

3. In a spindle molding machine employing a templet as claimed in claim 1, in 15 combination, a metal cutting tool, a table around said tool, a templet on said table, a guiding roller entering the pattern slots in the templet, an adjustable arm supporting said roller, and means locking said arm 20 in position vertically over the cutting tool with the roller in the pattern slots in the templet, as set forth.

In testimony whereof I have signed my name to this specification.

JAMES FRANK ROSE.