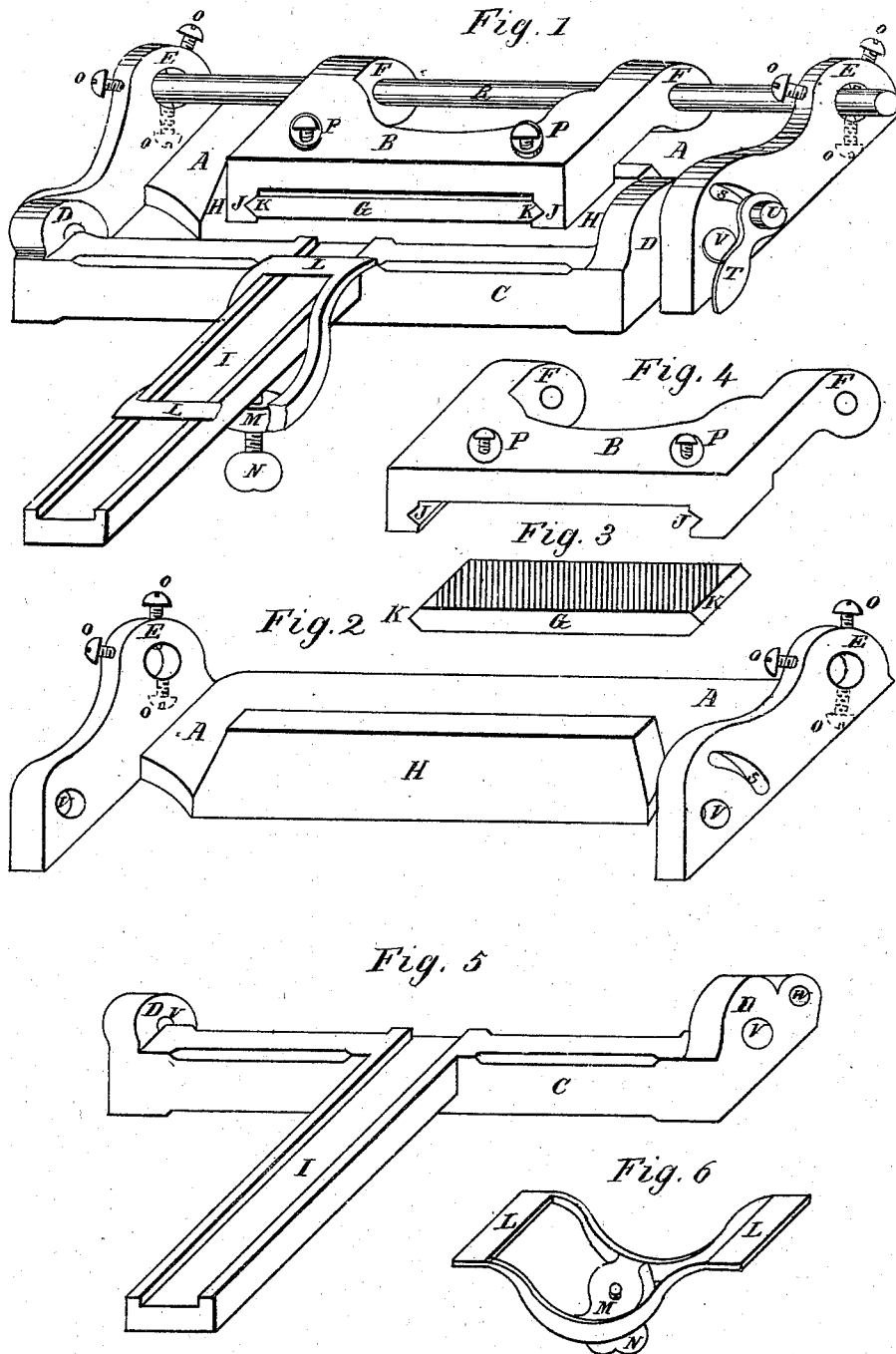


J. A. STANSBURY.
Printers' Miter Machines.

No. 137,575.

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Witnesses
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IMPROVEMENT IN PRINTERS' MITER-MACHINES.

Specification forming part of Letters Patent No. **137,575**, dated April 8, 1873; application filed September 4, 1872.

To all whom it may concern:

Be it known that I, JOSEPH A. STANSBURY, of Salem, Columbiana county, Ohio, have invented certain Improvements in Miter-Machines.

The following is a description of my newly-invented miter-machine, which is as full, clear, and exact as I am able at this time to give, reference being had to the drawing hereunto annexed.

This invention relates to that class of miter-machines used by printers to miter or bevel the ends of rule with which the border commonly surrounding a page of printed matter is printed, and to enable them to print a continuous, unbroken, and perfect line or border at the corners where the joint is to be made. The object of my invention is to furnish a machine for the above-named purpose which shall be perfectly adjustable in all of its movements, easy of manipulation, and cheap.

In the drawing, Figure 1 is a perspective elevation of my improved miter-machine. Figs. 2, 3, 4, 5, and 6 represent some of the more important parts of said machine.

Fig. 2 is the base or containing frame of the machine. Fig. 5 is an adjustable table, receiving the rule in the recess I, and turning upon pivots or bearings at *vv* in the ears D D, one of said ears to project and receive the bolt U, Fig. 1, at *w*. Said bolt extends through the curved slot S, and having a nut on the outer end provided with a suitable handle, by which the adjustable table C may be retained in any desired position. Fig. 3 is a file cut on both sides and beveled at both ends *kk*. Fig. 4 is the file-carriage, which receives the beveled ends *kk* in the guides J J. The screws P P screw down upon the file G and retain it in its place. The file-carriage B has a bearing on the finished rod R at F F, and is free to slide lengthwise thereon. The rod R is held firm by the adjusting-screws *oooooo*, substantially as shown in Fig. 1. Fig. 6 is a clamp used to hold the rule in its proper position while the machine is being operated, and con-

sists of the two cross-pieces L L, cross-tie and nut M, thumb-screw N with the ox-horn sides connecting L L and M, and used substantially as shown in Fig. 1. H is a stop or guide to prevent the saw-carriage B, carrying the file G, from falling below the desired point upon the rule. By the adjusting-screws *oooooo* the rod R may be set exactly parallel with the axis upon which the table C pivots.

To use my improved miter-machine, place the rule to be mitered in the recess I under the cross-pieces L L of the clamp; secure by the thumb-screw N; loosen the nut T, and adjust the table C to the desired angle; place the hand on the file-carriage at a point between screws P P; hold the file G in contact with the rule; give the file-carriage the reciprocal motion lengthwise of the rod R, until the stop H prevents the downward progress of the file; the rule will be found cut true to the setting of the machine. Should the file become dull from continued use in one place, loosen the screws P P, move the file in the slides J J, or remove the file and turn it over until entirely worn out.

Claims.

I claim—

1. The rod R and adjusting-screws *oooooo*, when used as and for the purpose herein specified and described.
2. The adjustable table C, constructed in the manner and for the purpose herein described.
3. The clamp L L M, constructed as described and shown, in combination with the recessed arm I of the table C, in the manner and for the purpose specified.
4. The combination and arrangement of the file-carriage B, rod R, stop or guide H, and bevel-edged file G, all constructed and operating in the manner described.

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Witnesses:

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