T. W. PARRY.

Machines for Dressing Slate-Frames.

No. 147,066. Patented Feb. 3, 1874.

Fig. 1.

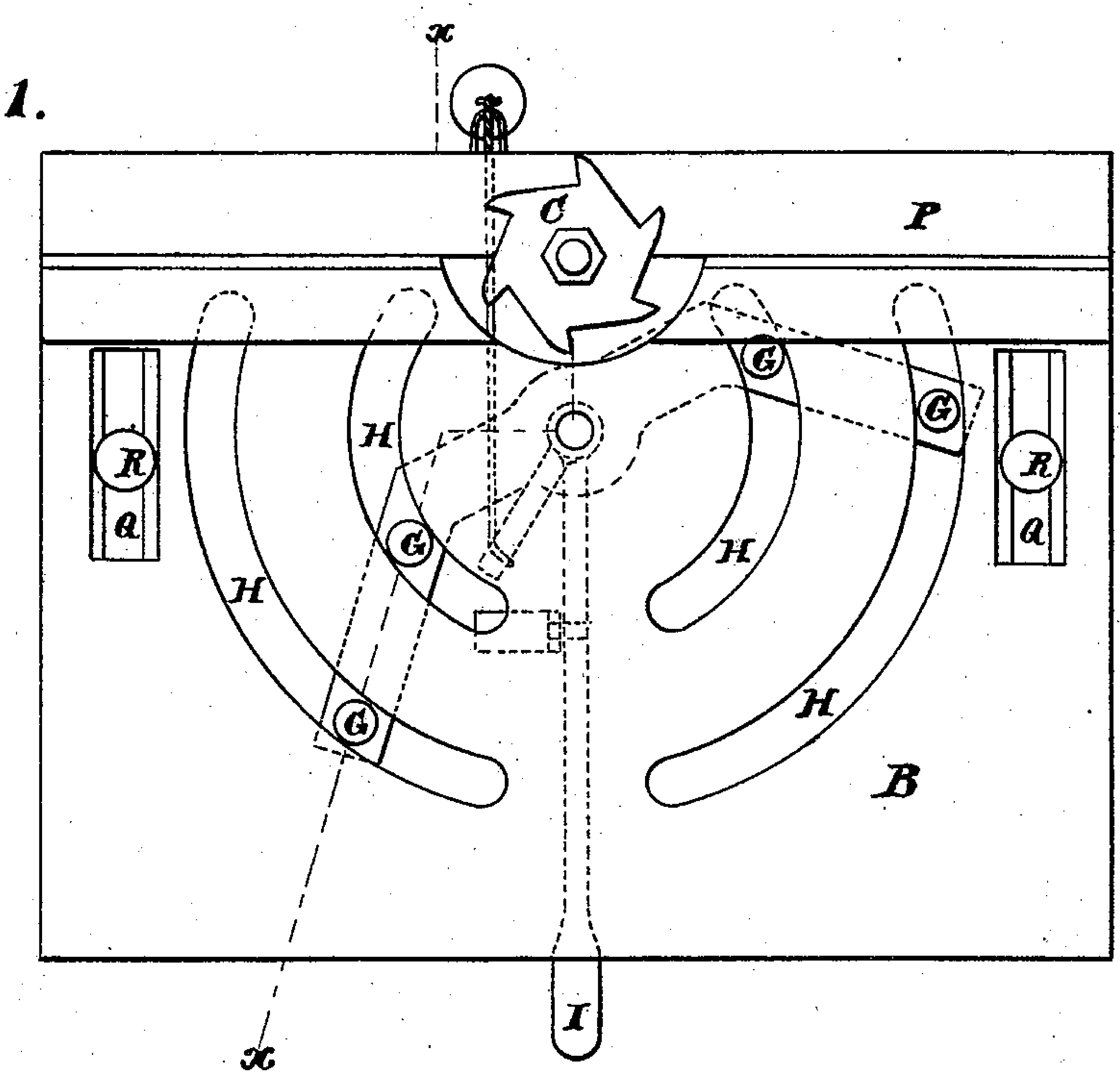
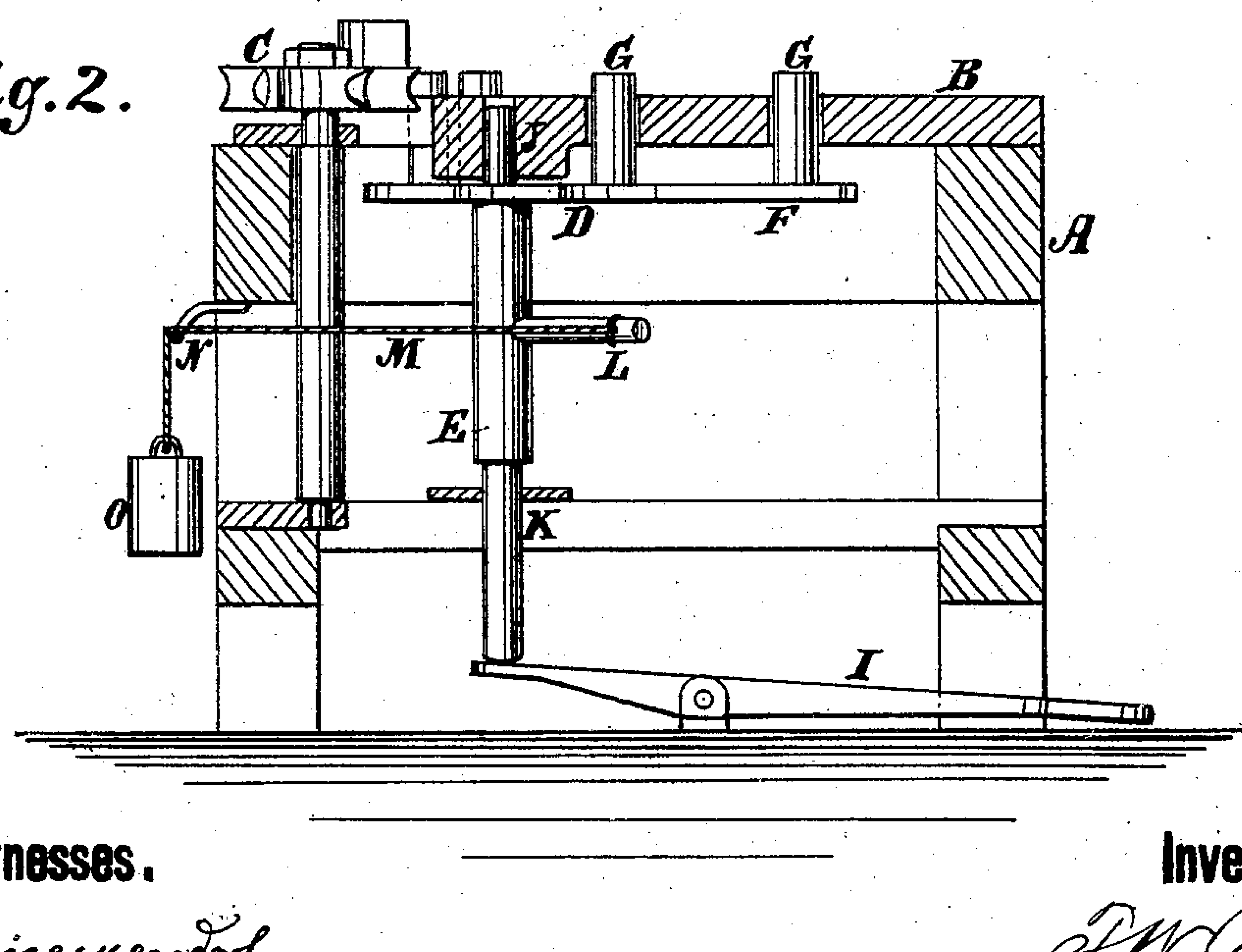


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

THOMAS W. PARRY, OF SLATINGTON, PENNSYLVANIA.

IMPROVEMENT IN MACHINES FOR DRESSING SLATE-FRAMES.

Specification forming part of Letters Patent No. **147,066**, dated February 3, 1874; application filed October 11, 1873.

To all whom it may concern:

Be it known that I, THOMAS W. PARRY, of Slatington, in the county of Lehigh and State of Pennsylvania, have invented a new and useful Improvement in Machine for Dressing Slate-Frames, of which the following is a specification:

A common mode of finishing the frames of school and other slates is to round the corners or to cut them to a circle, and to dress the entire edge of the frame, so as to leave it either beaded or rounded in cross-section.

My object in this invention is to furnish a machine to be driven by steam or other motive power to facilitate this work; and it consists of an adjustable table with a flange-guide, and in a vibrating adjustable spider, arranged to operate as hereinafter described.

In the accompanying drawing, Figure 1 is a top or plan view. Fig. 2 is a vertical section of Fig. 1, taken on the line *x x*.

Similar letters of reference indicate corresponding parts.

A is a frame of suitable size and height. B is a table resting on top of the frame, and made so as to be adjusted farther from or nearer to the rotary cutter. C is the rotating cutter. D is a vibrating spider attached to the vertical shaft E. This spider consists of a crooked arm, F, attached to the upright shaft E, which arm is provided with lugs G, which enter the curved openings H of the table. The shaft and spider are raised, so that the lugs project above the table, as seen in Fig. 2, when the slate-frame is laid thereon for rounding the corner, by means of the foot-lever I. When the pressure of the foot is removed, the spider drops by its own gravity, so that the ends of the lugs are beneath the surface of the table. The cutter C is given a rapid revolving motion. To round the corners of the frame, the slate is laid upon the ends of the lugs, with the corner in contact with the cutter, and is carried round with the spider about one-fourth of a revolution. The spider turns on a true circle. The shaft E is supported by the journal J in the table, and journal K in the frame. In the shaft E is an arm, L, to which is attached a cord, M, which runs over the pulley N, with a weight, O, at its end, which draws the spider back when it has described the quarter circle for rounding the corners of the frame. A spring may be employed for this purpose, if desired. When this has been done, the frame is moved laterally against the guide P to dress the edges. The table is adjusted and held in position by means of the slots Q and screws R R, and is stationary when the machine is in use.

I am aware that machines have been heretofore constructed to dress slate-frames by means of a rotary cutter; but I am not aware that a machine for that purpose has been heretofore constructed to operate as herein described.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with rotary cutter C, of arc-slotted table B H and rising vibratory spider D, having the lugs G on upper side, as and for the purpose described.

THOMAS W. PARRY.

Witnesses:
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