

(No Model.)

P. B. GRAHAM.
GUIDE FOR EDGE MOLDING MACHINES.

No. 359,071.

Patented Mar. 8, 1887.

Fig. 2.

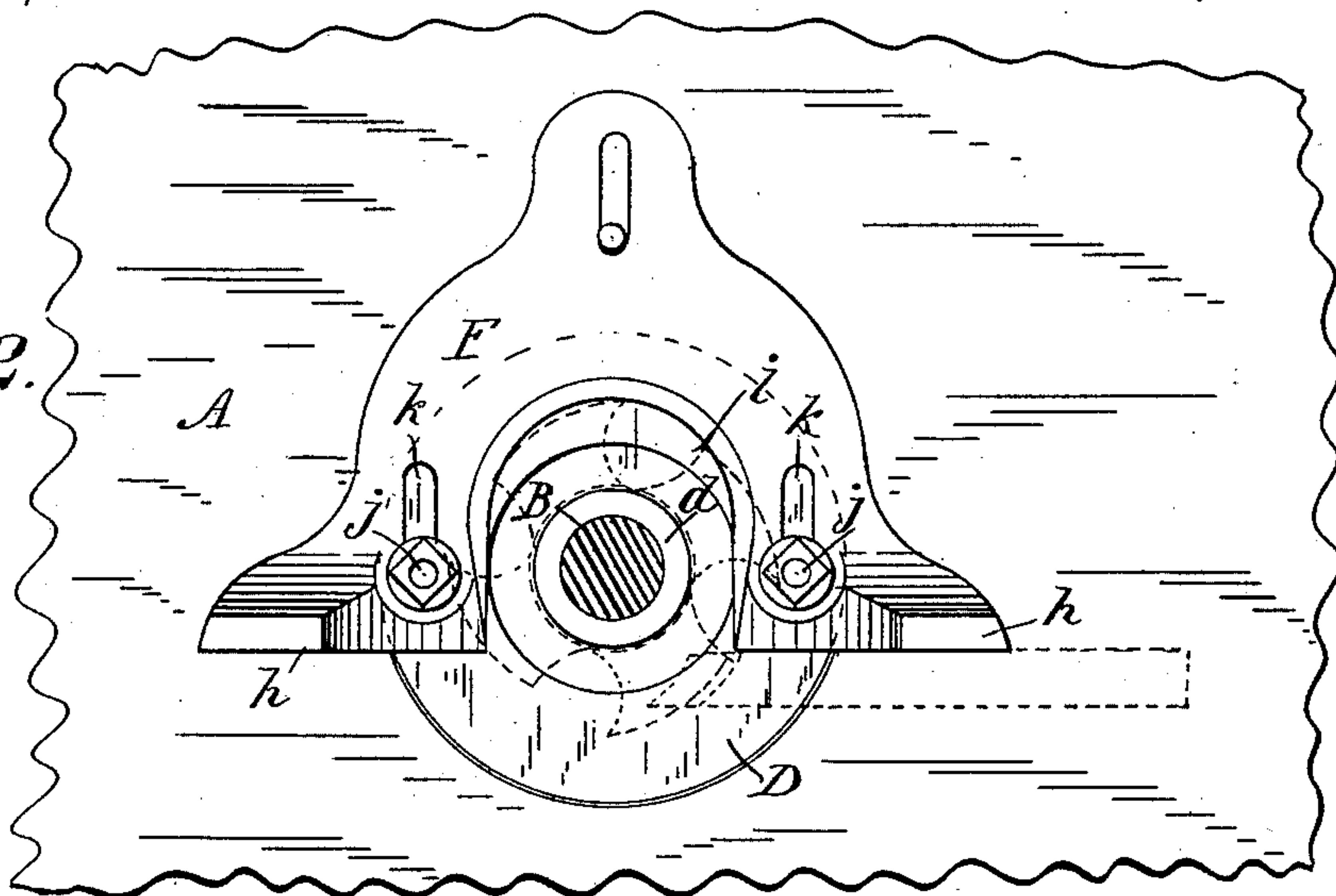
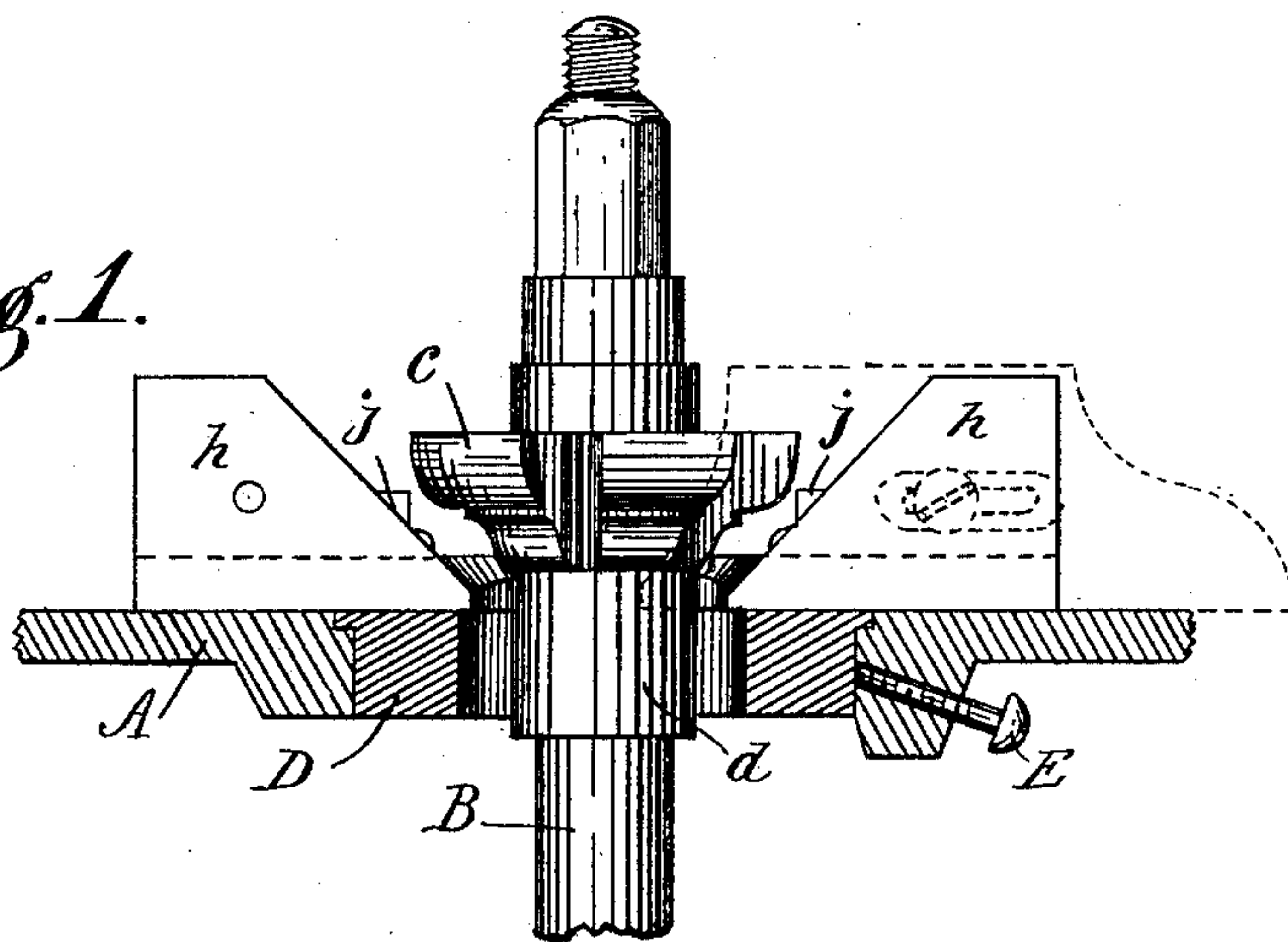


Fig. 3.



Fig. 1.



Witnesses
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UNITED STATES PATENT OFFICE.

PARK B. GRAHAM, OF GREENCASTLE, INDIANA.

GUIDE FOR EDGE-MOLDING MACHINES.

SPECIFICATION forming part of Letters Patent No. 359,071, dated March 8, 1887.

Application filed June 29, 1886. Serial No. 206,596. (No model.)

To all whom it may concern:

Be it known that I, PARK B. GRAHAM, a citizen of the United States, residing at Greencastle, in the county of Putnam and State of Indiana, have invented a new and useful Improvement in Guides for Edge-Molding Machines, of which the following is a specification.

My invention relates to an improved guide to be used in connection with the cutters in that class of wood-working machines in which the cutters are mounted on a vertical shaft projecting above the surface of a horizontal table.

The objects of my improvement are to prevent the cut or "molded" surface in an edge-molding from conforming to or being distorted by slight irregularities in the uncut edge, and to prevent the cutters from breaking out the wood when working against the grain.

The accompanying drawings illustrate my invention.

Figure 1 is a side elevation of the cutter-head and the guide, the table being shown in section. Fig. 2 is a plan. Fig. 3 is an elevation showing a pair of removable adjustable faces for the guide.

A is the machine-table.

B is the shaft carrying the cutter *c*. *d* is the usual collar, secured to the shaft and arranged to receive and hold the cutter.

D is a circular plate having a central hole, through which the collar *d* may pass and let into the table A flush with the upper surface. Said plate D fits the opening in the table loosely, so as to turn freely therein.

E is a set-screw for securing plate D in a fixed position in relation to the table when desirable.

F is the guide-plate having a straight true edge, *h*, in which is an opening, *i*, adapted to receive loosely the collar *d*. Said guide-plate is secured to the plate D by screws *j j*, which pass through slotted openings *k k*.

I I are thin true plates having one end shaped to correspond in general outline with the edges of cutter *c*. Said plates are adjustably secured to the straight face of the guide by screws passing through slots *l l*.

In operation, a straight edge is placed against

the periphery of collar *d*, and the straight face of the guide-plate is then placed or brought up against the straight edge, and the guide is secured to plate D. The cutter as it revolves projects through the opening *i* beyond the line of the collar and straight face of the guide-plate. The piece to be molded is placed against the straight face of the guide-plate and passed under the cutter.

Heretofore in this class of machines it has been customary to use the collar *d* as a guide, and this, on account of its small bearing-surface, has fallen into small irregularities in the edge of the piece molded, as the broken surface found in the edge of a cross-grained piece of wood. This difficulty is avoided by the use of my guide. For the purpose of preventing the cutters from tearing or splitting out the edge when working against the grain, the plates I I are secured to the face of the guide-plate, and are adjusted so as to nearly touch the cutter, and the work is then run against said plates. The guides being secured to the plate D, which is free to turn, the workman may approach the cutter from any direction, and by simply turning the guide about the cutter-head find the guide in proper position.

I claim as my invention—

1. In a guide for edge-molding, the combination, with the vertical cutter-shaft and the table through which said cutter-shaft projects, of the plate D, arranged to turn in the table concentrically with the cutter-shaft, and the straight-edged guide-plate F, adjustably secured to plate D, substantially as and for the purpose specified.

2. In a guide for edge-molding, the combination, with the vertical cutter-shaft and the table through which said cutter-shaft projects, of the plate D, arranged to turn in the table concentrically with the cutter-shaft, and the straight-edged guide-plate F, having the thin plates I I, adjustably secured to its guiding-edge, and the guide-plate being adjustably secured to plate D, all substantially as and for the purpose specified.

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Witnesses:

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