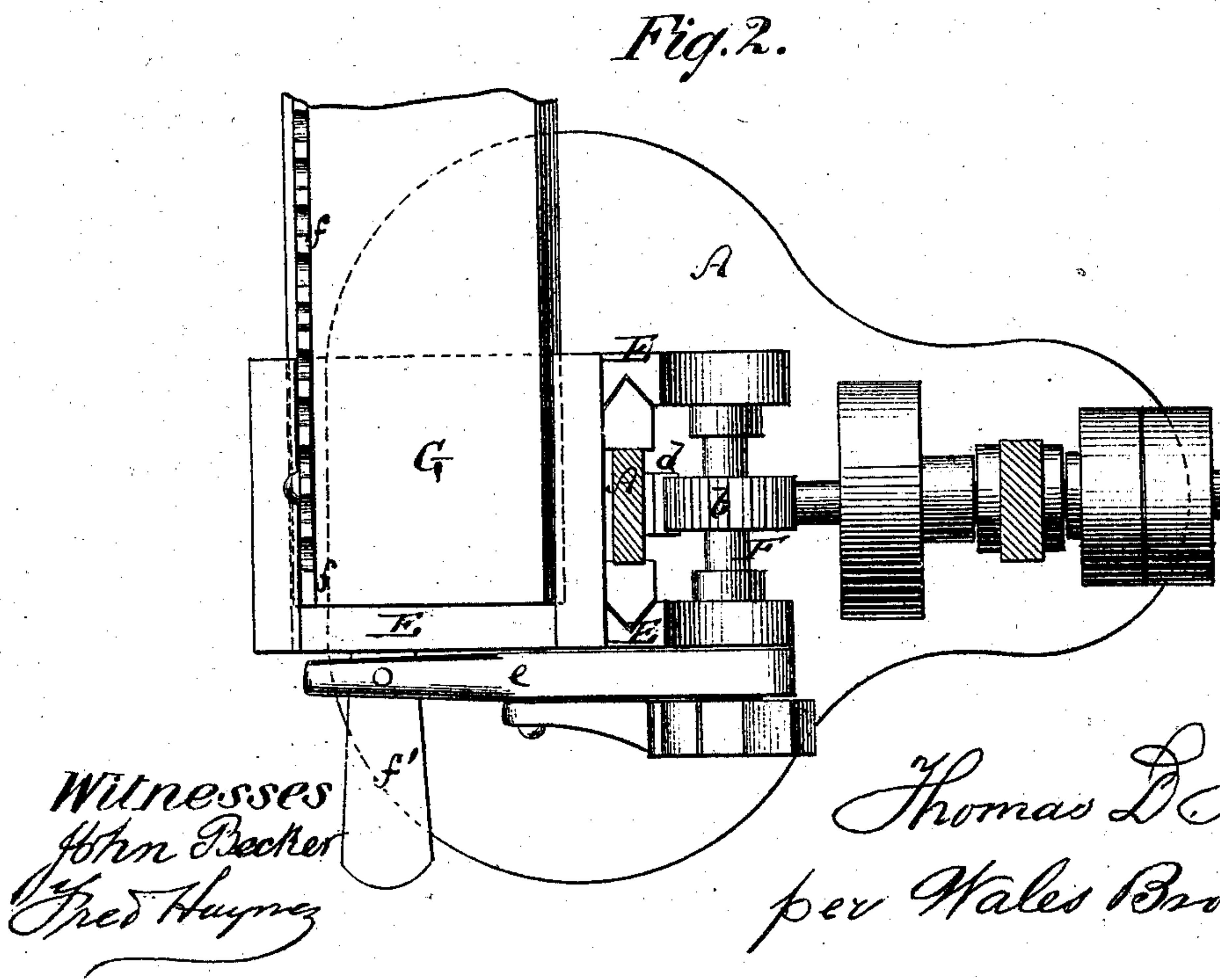
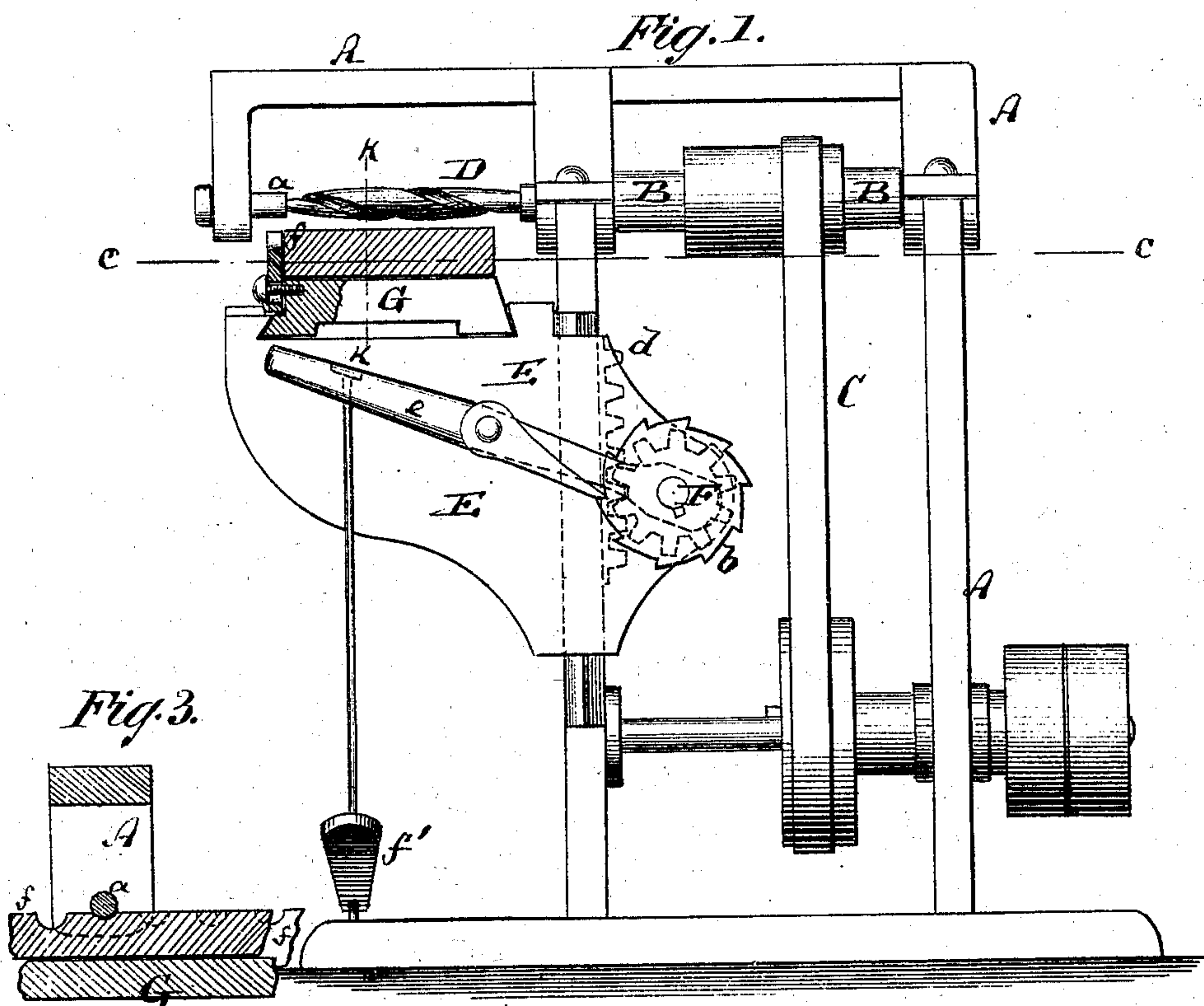


T. D. McGUIRE.

MACHINERY FOR MAKING CIGAR-MOLDS.

No. 171,152.

Patented Dec. 14, 1875.



Witnesses
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THOMAS D. McGUIRE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN MACHINERY FOR MAKING CIGAR-MOLDS.

Specification forming part of Letters Patent No. **171,152**, dated December 14, 1875; application filed June 12, 1875.

To all whom it may concern:

Be it known that I, THOMAS D. McGUIRE, of Brooklyn, in the county of Kings and State of New York, have invented an Improved Machine for Making Cigar-Molds, of which the following is a specification:

This invention relates to improvements in machines for making cigar-molds; and consists in a new arrangement of devices for regulating the depths of the cavities cut, and their distances from each other, as will be hereinafter more fully described.

In the accompanying drawing, Figure 1 represents a side elevation, partly in section, of my improved cutting-machine. Fig. 2 is a plan or top view, partly in section, of the same, the line *c c*, Fig. 1, indicating the plane of section. Fig. 3 is a vertical transverse section on the line *K K*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The letter *A* in the drawing represents the stationary frame-work of my improved cutting-machine. In it are the bearings of a shaft, *B*, which is revolved by a belt, *C*, or by a suitable mechanism, at suitable speed, and to which at one end the cutter *D* is secured in line with its axis. This cutter, if intended for a cigar-molding machine, is of the shape of the cigar to be formed in such mold, so that it will produce in the block of wood or metal a cavity of the shape of half such a cigar cut longitudinally. The outer end of the cutter *D* may be entirely free, or it may, if desired, have its bearings in a pin, *a*, which hangs in the frame *A*, as shown in Fig. 1. *E* is a movable carriage arranged on the frame *A*, beneath the cutter *D*, to be up and down adjustable toward and away from the same. This carriage *E* carries a shaft, *F*, from which a pinion, *b*, enters a rack, *d*, that is formed on the frame *A*, so that by turning the shaft *F*, by means of a lever, *e*, or treadle *f*, the carriage will be moved upward along the frame *A* in the desired manner. Upon the carriage

E is supported a longitudinal bed, *G*, dovetailed into the carriage, as shown in Fig. 1, and which carries a projecting ledge, *f*, directly beneath a pin *a*. This ledge is scalloped or grooved at such distances apart as it is desired to have the cavities to be cut apart from each other. A block to be cut is placed beneath the rotary cutter *D*, upon the carriage *G*, and firmly secured thereto by suitable means, which has its upper surface flush with the uppermost edge of the ledge *f*, or at least with the center of the semicircular recesses that are cut into said ledge. Whenever, by means of the lever *e* or treadle *f*, the carriage *E* is raised the block to be cut is brought into contact with the rotary cutter *D*, and is thereby provided with the requisite cavity, the cutting process being completed and arrested when the pin *a* fills the semicircular cavity which is under it in the ledge *f*. For regulating the depth of the cut the ledge *f* may be made up and down adjustable alongside of the slide *G*. After each cavity has been cut by the rotary cutter *d* the slide *G* is moved lengthwise on the carriage to bring the entire surface of the block to be cut under the cutter, and the process is then resumed as before. In this manner the process of cutting is carried on with great rapidity and precision, and by the use of mechanism very simple in every respect. It is evident that, instead of one cutter *D*, the same machine may have a series of such cutters acting simultaneously or successively, as may be desired.

What is here claimed, and desired to be secured by Letters Patent, is—

The recessed ledge *f*, on the slide *G*, in combination with the guide-pin *a*, on the frame *A*, and with a cutter, *D*, all arranged as specified.

THOS. D. McGUIRE.

Witnesses:

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