

J. E. MILLER.

Lathe Attachment for Chasing Designs on Molds.

No. 120,593.

Patented Nov. 7, 1871.

Fig. 1

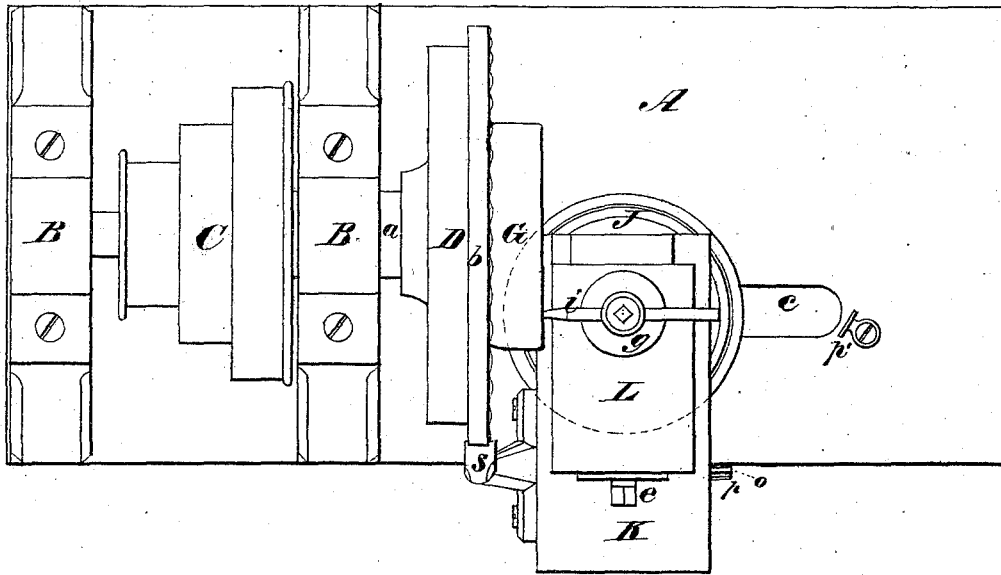
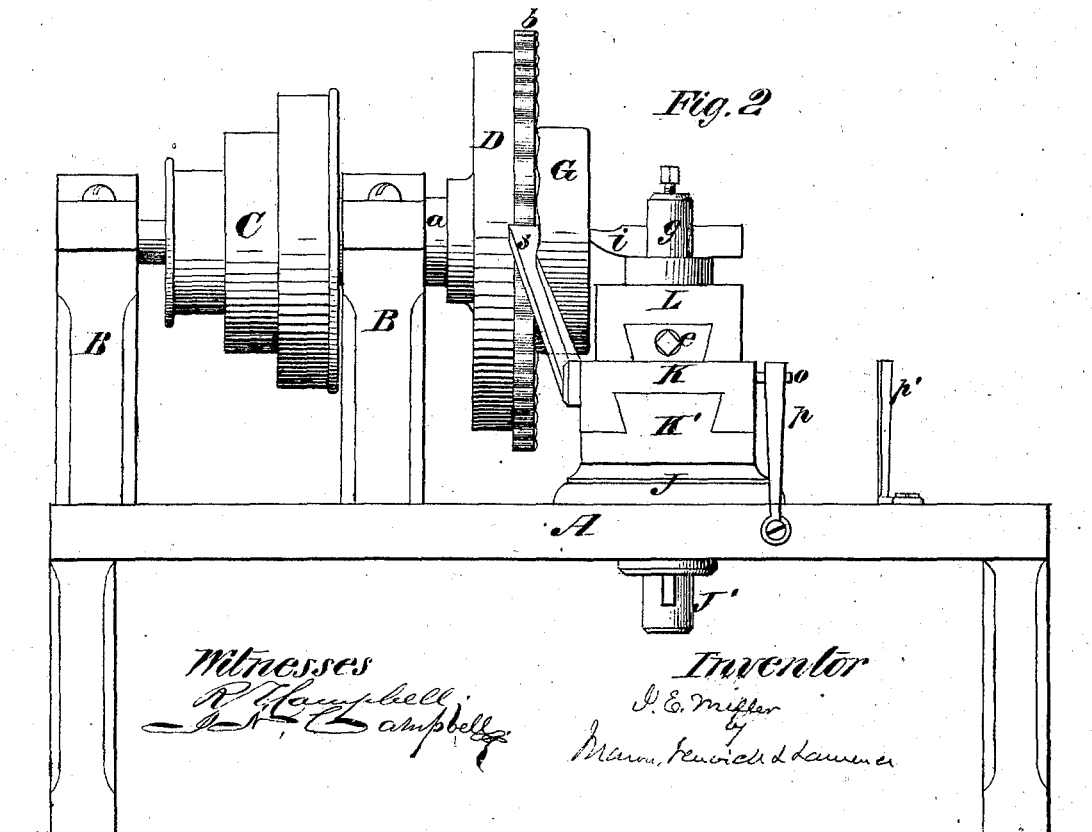


Fig. 2



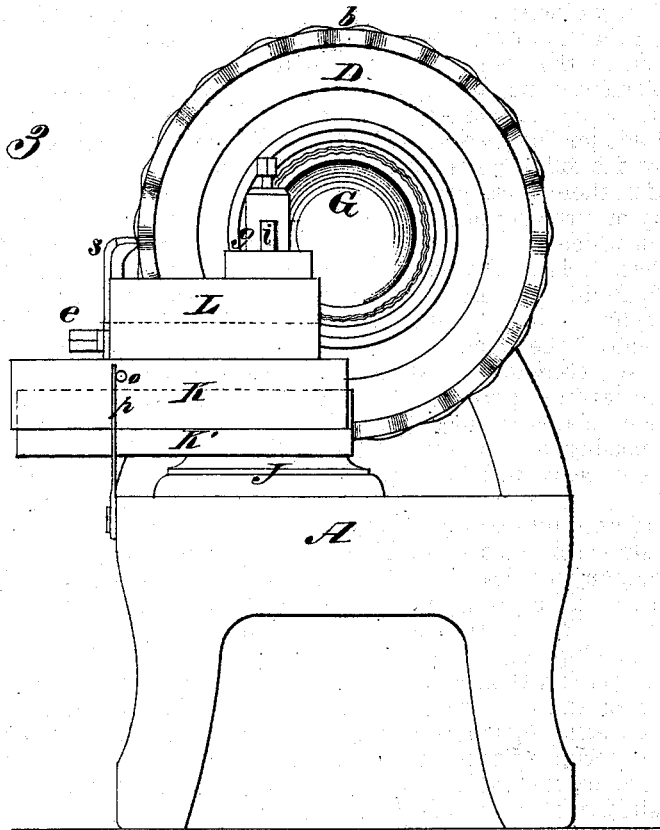
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Fig. 3



Witnesses.
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UNITED STATES PATENT OFFICE.

JOHN ERNEST MILLER, OF BIRMINGHAM, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND WASHINGTON BECK, OF SAME PLACE.

IMPROVEMENT IN LATHE-ATTACHMENTS FOR CHASING DESIGNS ON MOLDS.

Specification forming part of Letters Patent No. 120,593, dated November 7, 1871.

To all whom it may concern:

Be it known that I, JOHN ERNEST MILLER, of Birmingham, in the county of Huntingdon and State of Pennsylvania, have invented a new and Improved Lathe-Attachment for Chasing Designs on Molds for Glassware; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1, Plate 1, is a plan view of the machine. Fig. 2, Plate 1, is an elevation of one side of the machine. Fig. 3, Plate 2, is an elevation of one end of the machine.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to machinery which is intended for chasing or engraving designs on molds for glassware, as will be hereinafter explained.

The following description of my invention will enable others skilled in the art to understand it.

In the accompanying drawing, A represents a table carrying an arbor, *a*, which has its bearings in standards B B. On the end of the arbor *a* is a circular chuck-plate, D, and between the standards a cam-pulley, C, is applied on the arbor, as represented in the drawing. The chuck-plate has a pattern-ring, *b*, secured to it by screws or otherwise, the periphery and one side of which present surfaces corresponding to the design which it is desired to chase on the molds. This pattern-ring *b* can be readily removed and another applied in its place. G represents the mold, on which waved lines are chased, as represented in Fig. 3. These lines or grooves are produced by a chasing-tool, *i*, which is adjustably secured to a tool-stock, *g*, rising from one end of a sliding rest, L. The rest L is connected to a slide-block, *k*, by means of a dovetail tenon and an adjust-

ing screw, *e*, and the block *k* is connected to a block, *k'*, by means of a dovetail tenon. The bed *k'* is connected to a stand, J, the bolt J' of which passes through an oblong slot, *c*, through the table top, and is secured beneath this top in any suitable manner. On one side of the oblong block *k* a follower, S, is secured, the nose of which is held in contact with the periphery of the pattern-ring *b* by means of a spring, *p*, on table A acting against a pin, *o*, on said sliding block *k*.

It will be seen from the above description that when the chasing-tool *i* is properly adjusted up to the surface of the mold G and the arbor rotated this tool will receive a reciprocating motion and will produce waved lines on the mold.

For producing waved lines on the inner surface of a mold the bolt J' is loosened and the tool-support turned around, so that the spring *p'* will be brought into play upon the sliding block *k*. A follower is then applied to the block *k*, which will act against the face of the pattern-ring instead of against its periphery.

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

1. The chuck D with pattern *b* applied upon it, in combination with a tool, *i*, an adjustable stock, *g*, a rest, L, a block, *k*, and a spring, *p*, arranged and combined substantially as and for the purpose set forth.

2. An auxiliary spring, *p'*, applied in a glass mold chasing-machine, substantially as and for the purpose described.

Witness my hand in matter of my application for a patent for a machine for engraving glass molds.

JOHN ERNEST MILLER.

Witnesses:

D. WENKE,
JACOB ULRICH.

(173)