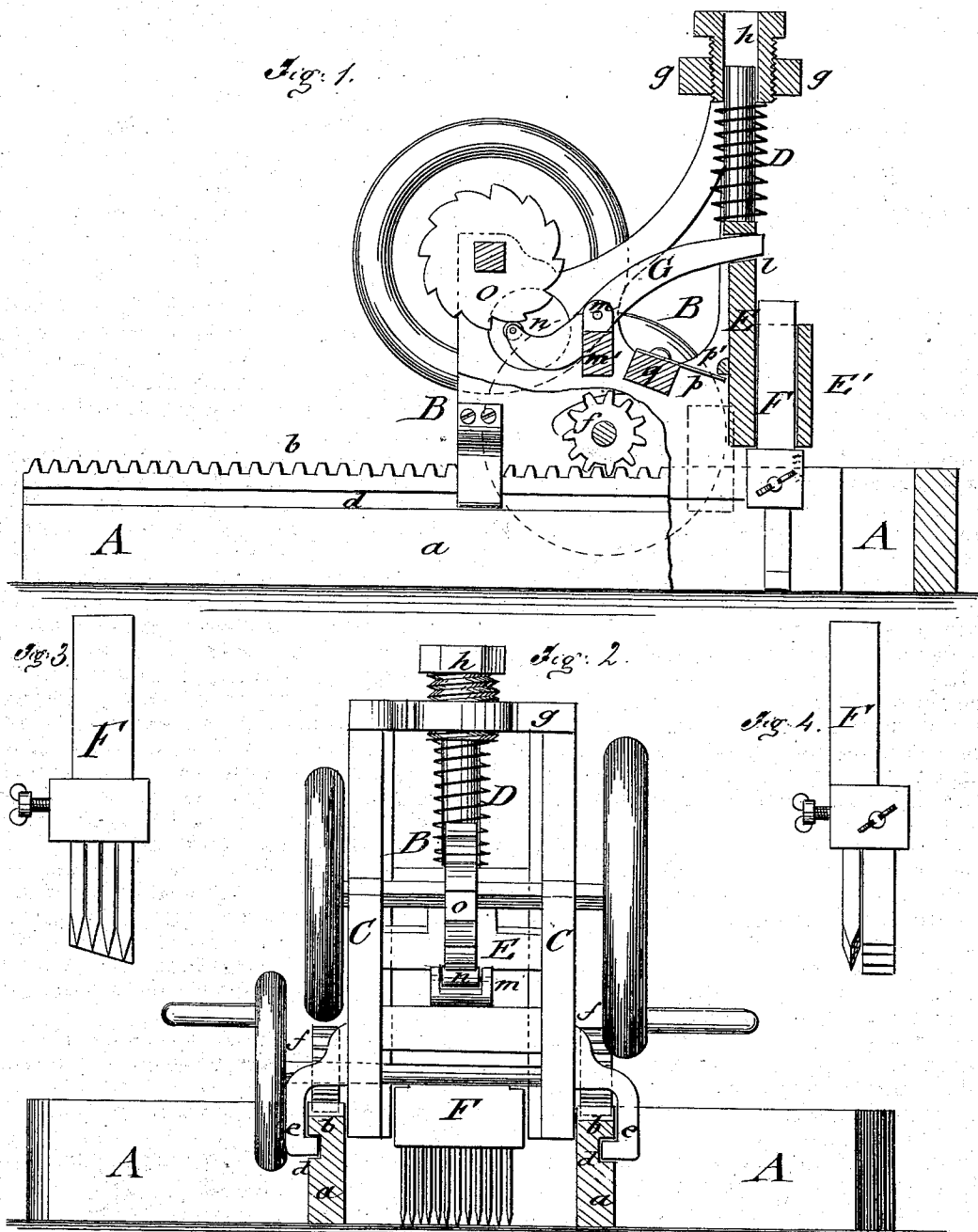


S. G. JOHNSON & W. S., R. Y. H., & A. W. TERRY.
Machines for Dressing Mill-Stones.

No. 155,029.

Patented Sept. 15, 1874.



Witnesses:

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UNITED STATES PATENT OFFICE.

SAMUEL G. JOHNSON, WILLIAM S. TERRY, ROBERT Y. H. TERRY, AND
ALONZO W. TERRY, OF HAMBURG, ARKANSAS.

IMPROVEMENT IN MACHINES FOR DRESSING MILLSTONES.

Specification forming part of Letters Patent No. 155,029, dated September 15, 1874; application filed
March 21, 1874.

To all whom it may concern:

Be it known that we, SAMUEL G. JOHNSON, WILLIAM S. TERRY, ROBERT Y. H. TERRY, and ALONZO W. TERRY, of Hamburg, in the county of Ashley and State of Arkansas, have invented a new and Improved Machine for Dressing Millstones, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a sectional side elevation of our improved machine for dressing millstones; Fig. 2, an end view of the same; and Figs. 3 and 4, respectively, front and side views of the furrowing attachment.

Similar letters of reference indicate corresponding parts.

The object of our invention is to provide an improved machine for dressing millstones, which will accelerate greatly the cracking, facing, and furrowing of the lands, working easily and regularly, and being of strong and durable construction.

The invention relates to means for regulating the force of the blows of the pick.

In the drawing, A represents the base or guide-frame of the dressing-machine, consisting of two parallel guide-bars, *a*, which are provided with top racks *b*, and outside grooves *d* for the pick-frame B. Base-frame A is laterally connected by suitable bars, and cast of iron or other suitable metal. The pick-frame B consists of strong side standards C, which run along bars *a*, sliding by means of the outwardly-projecting lugs *e* in grooves *d* of the same. Feed-pinions *f* and crank-wheel *f'* of pick-frame B move the frame forward or backward, as required by the operator. The standards C are also laterally connected by strong bars, carrying at the front the top bar *g*, with hollow screw *h*, which guides the shaft of the pick-bar, and controls also the coiled spring D, by which the force is imparted to the blows of the pick-bar E. The pick-bar E is guided vertically in grooves of the front ends of stand-

ards C, and carries in sleeve E' the pick-stock F, which is firmly secured at the proper height by set-screws *i*. The picks are set into the stocks F in the usual manner for running over the lands, as required by the width of the furrows.

For cutting deeper furrows, the dressing-stock is taken out, and the furrowing attachment shown in Figs. 3 and 4 inserted into the pick-bar. A curved lever, G, is inserted loosely with its free end into a hole, *l*, at top of pick-bar E, below spring D, extending back between standards C, with its fulcrum at *m* on lateral bar *m'*. Its shorter rear end is provided with a small roller, *n*, on which the ratchet-wheel *o*, placed on the same shaft with driving-wheel and fly-wheel, acts, operating the front end of lever G, raising the pick-bar, and producing short rapid blows of the same by the force of the coiled spring D. A flat band-spring, *p*, acts on a lug, *p'*, at inside of pick-bar E, and takes up more or less of the force of the blows, like a cushion.

Spring *p* is arranged in such a manner on its cross-bar *q* that the degree of softening the blows may be regulated thereby. The pick-frame is moved forward or back by the feed-gear, as required, by the number of blows, dressing the lands in short time in a regular and even manner.

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

The pick-bar E, having guide-hole *l* for lever G, in combination with hollow screw *h* and coiled spring D, for regulating the force of the blows, as described.

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Witnesses:

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