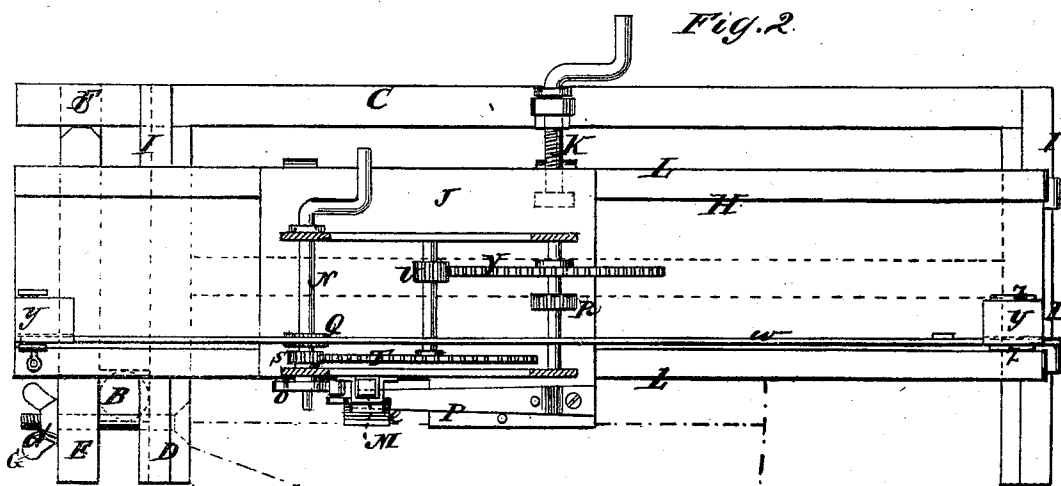
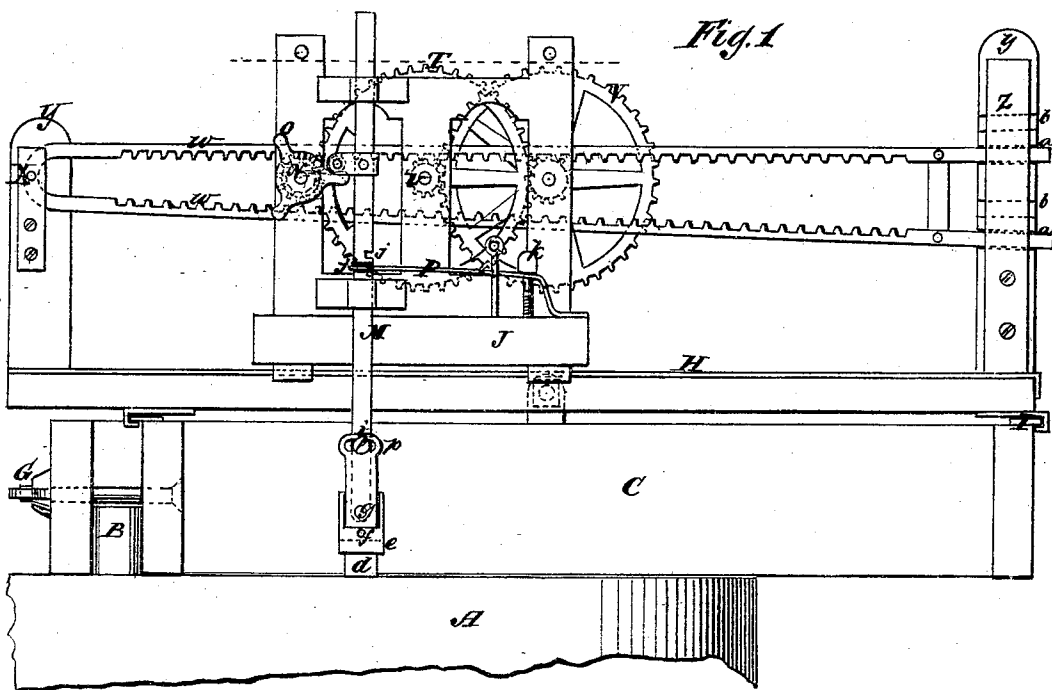


J. W. PARISH.
Machines for Dressing Mill-Stones.

No. 141,288.

Patented July 29, 1873.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOEL W. PARISH, OF MCFARLAND'S, VIRGINIA.

IMPROVEMENT IN MACHINES FOR DRESSING MILLSTONES.

Specification forming part of Letters Patent No. **141,288**, dated July 29, 1873; application filed February 21, 1873.

To all whom it may concern:

Be it known that I, JOEL W. PARISH, of McFarland's, in the county of Lunenburg and State of Virginia, have invented a new and Improved Millstone-Dressing Machine, of which the following is a specification:

The invention consists in the improvement of machines for dressing millstones, as hereinafter described and pointed out in the claims.

Figure 1 is a side elevation of my improved millstone-dressing machine, and Fig. 2 is a plan view.

Similar letters of reference indicate corresponding parts.

A represents the stone to be dressed, and B the spindle of it. C represents a small rectangular frame or platform, about as long as, or a little longer than, the radius of the stone resting on the face of it, and clamped to the spindle at one corner between the cross-pieces D E, which project beyond the side a little, so that said side will range a little distance from a radial line of the stone, and parallel with it. One of said cross-pieces is pivoted to the opposite side of the frame at F, and a clamping-bolt, G, and nut are provided for securing the frame to the spindle in this manner, so that it can be swung around the spindle on the face of the stone. H is a long plate or frame as long as the frame C, but not quite as wide, which is mounted on the transverse ways I, so as to slide forward and back on frame C, and it is provided with a cranked adjusting-screw, K, for shifting it. On this frame H is a platform, J, which slides nearly the whole length of it on ways L. It carries the pick-stock M, also the crank-shaft N, with tappets O for raising it, the spring P for forcing it down, the feeding-pinions Q and R, and the train of gears S, T, U, and V for working the latter pinion. The pinion Q, which is on the crank-shaft, is for giving the fast feed for cracking by gearing alternately with the rack-bars W, one of which is above it and the other below it, and they are connected together at both ends—pivoted at one end, x, and at the other end arranged to be shifted up or down from notches a to notches b, and vice versa to change from one to the other, by which the platform is moved forward and back, while the crank-shaft is continuously turned in the same direction. The pinion R is used for the slow feed for dressing furrows, the rack-bars being shifted to gear with it by

being placed on the opposite sides of the posts Y in the same manner as represented on the front side in Fig. 1. Spring-plates Z are used on the post, having the notches a b for the ends of the rack-bars, to hold them in the notches and allow of shifting them readily from one to another. The picks d are fastened in a socket-piece, e, by a set-screw, f, so as to be put in and taken out readily, and this socket-piece is jointed to the pick-stock by a pivot at g, a slotted plate, p, and a binding-screw, i, so that the cutting-edge can be adjusted either to a right or oblique angle with the pick-stock. The pick-stock is square, and is fitted in corresponding guides to hold the pick in the radial plane for cracking the lands, and at right angles thereto for dressing the furrows, the stock being taken out of the guides and shifted around a quarter of a revolution for the latter purpose. The spring P engages the stock by notches j in the sides—the lower one for cracking and the upper one for dressing the furrows. The tension of the spring and the force of the blows are regulated by the adjusting-screw K.

It will be seen that the frame C is arranged so that the platform, sliding forward and backward on the frame H, will carry the picks parallel with the furrows; that the shifting of the frame H on the frame C will adjust them from line to line for fine or coarse cracking; that by turning the pick-stock the picks can be adjusted for cracking or furrowing; and that by shifting the socket-piece on the pick-stock the picks can be adjusted to the angle of the furrows, and by the fast and slow feeds the picks can be moved along the stone radially at the requisite speeds for the different kinds of work, all in a manner calculated to render the machine very efficient.

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

1. The sliding platform, carrying the tool-stock, combined with a pinion of the feed-gear working between two rack-bars, in the manner and for the purpose set forth.

2. The pick d fastened in a socket, e, jointed to the pick-stock at g, as and for the purpose specified.

JOEL W. PARISH.

Witnesses:

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