F. MILLER.

MILLSTONE DRESSING MACHINE.

No. 193,173. Patented July 17, 1877.

Fig. 1

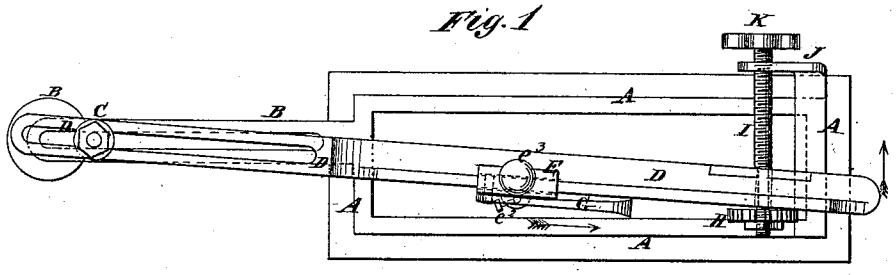
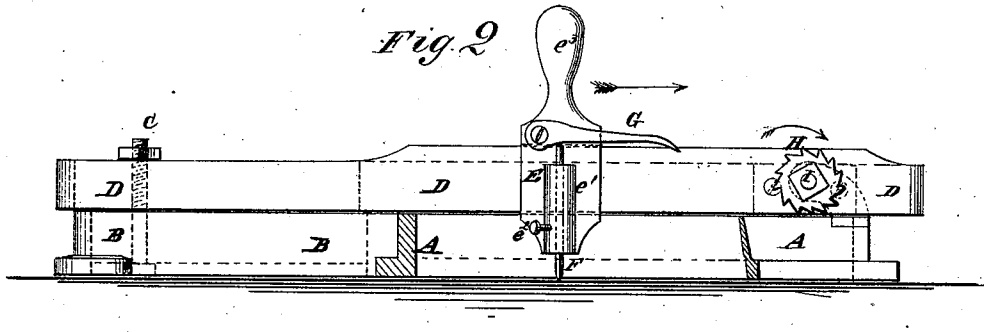


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANK MILLER, OF LAPEER, MICHIGAN.

IMPROVEMENT IN MILLSTONE-DRESSING MACHINES.

Specification forming part of Letters Patent No. **193,173**, dated July 17, 1877; application filed June 18, 1877.

To all whom it may concern:

Be it known that I, FRANK MILLER, of Lapeer, in the county of Lapeer and State of Michigan, have invented a new and useful Improvement in Machines for Dressing Millstones, of which the following is a specification:

Figure 1 is a top view of my improved machine. Fig. 2 is a side view of the same, part being broken away to show the construction.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved device for dressing millstones which will keep a perfectly true surface upon a stone, will feed the cutter forward automatically as each cut is made, and which shall be simple in construction and convenient in use.

The invention consists in the combination of the frame and slotted arm, the pivoting-bolt, the pivoted slotted lever, the sliding cross-head, the cutter, the pawl, the ratchet-wheel, and the swiveled screw with each other, to adapt the device for use in dressing millstones, as hereinafter fully described.

A is a small rectangular frame planed perfectly true, and from the inner end of which an arm, B, projects, which is slotted longitudinally to receive the bolt C, by which the inner end of the lever D is pivoted. The inner end of the lever D is slotted longitudinally to receive the pivoting-bolt C, so that the said bolt C may be adjusted to cause the cuts to approach each other at a greater or less angle, as may be desired.

The lever D rests and vibrates upon the top of the frame and arm A B. The part of the lever D that is over the frame A has longitudinal flanges formed upon its upper and lower sides, to serve as ways for the cross-head E to slide upon.

Upon the side of the cross-head E is formed a socket, e^1, to receive the cutter F, which is secured in place, when adjusted, by a set-screw, e^2, passing in through the side of the socket e^1. The cross-head E is provided with a handle, e^3, for convenience in moving it back and forth upon the lever D.

To the cross-head E is pivoted the end of a pawl, G, which rests upon the upper end of the cutter F, or upon some other stop attached to the said cross-head E. The cutter F makes the cut as the cross-head E is drawn inward, and as the said cross-head is pushed outward the engaging end of the pawl G strikes against the teeth of the ratchet-wheel H and turns it.

The ratchet-wheel H is attached to the end of a screw, I, which passes through and is swiveled to the outer end of the lever D. The screw I passes through a screw-hole in an arm, standard, or bracket, J, attached to the frame A, and has a hand-wheel, K, attached to its outer end.

By this construction, as the screw I is turned by the outward movement of the cross-head E, the lever D will be moved laterally to bring the cutter into the proper position for making another cut. With this construction the stone will be dressed from the eye to the skirt, just the same as a stone will wear, facing the stone at the eye or center, and cracking it at the skirt.

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

The combination of the frame and slotted arm A B, the pivoting-bolt C, the pivoted slotted lever D, the sliding cross-head E, the cutter F, the pawl G, the ratchet-wheel H, and the swiveled screw I with each other, to adapt the device for use in dressing millstones, substantially as herein shown and described.

FRANK MILLER.

Witnesses:

O. H. MCENTER,

RICHARD LACY.