D. NARRACONG.

Millstone Dressing Machine.

No. 211,037. Patented Dec. 17, 1878.

Fig. 1

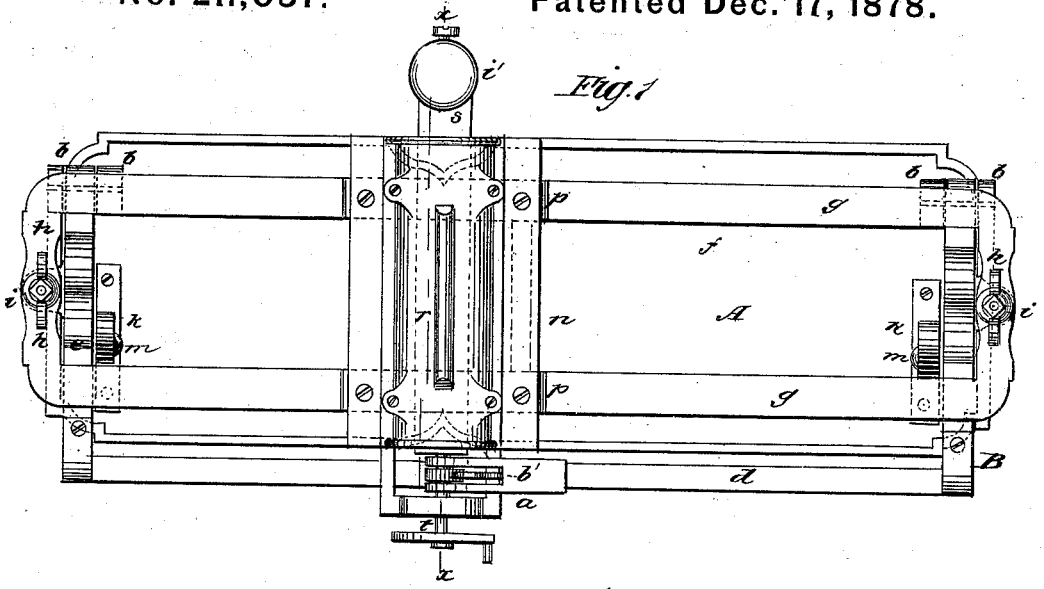


Fig. 2

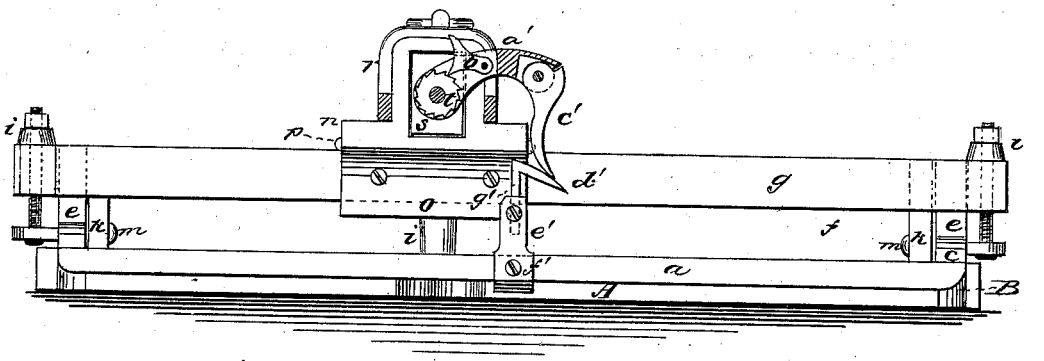


Fig. 3.

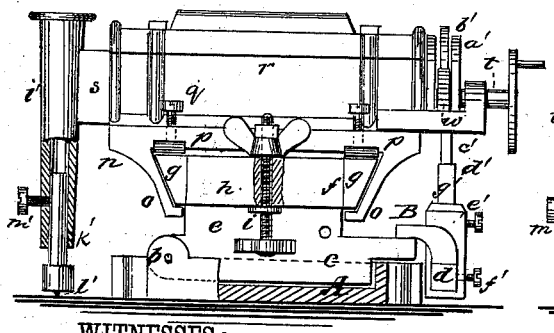
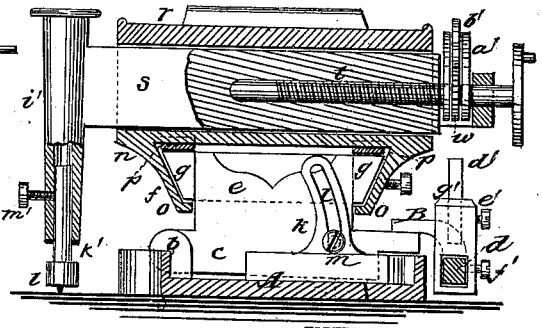


Fig. 4.



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# UNITED STATES PATENT OFFICE.

DAVID NARRACONG, OF BARABOO, WISCONSIN, ASSIGNOR TO HIMSELF AND JONAS NARRACONG, OF SAME PLACE.

## IMPROVEMENT IN MILLSTONE-DRESSING MACHINES.

Specification forming part of Letters Patent No. **211,037**, dated December 17, 1878; application filed February 23, 1878.

*To all whom it may concern:*

Be it known that I, DAVID NARRACONG, of Baraboo, in the county of Sauk and State of Wisconsin, have invented a new and Improved Millstone-Dressing Machine, of which the following is a specification:

Figure 1 is a plan view of my improved millstone-dressing machine. Fig. 2 is a side elevation, partly in section. Fig. 3 is an end elevation, partly in section. Fig. 4 is a vertical transverse section taken on line *x x* in Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention relates to machines for dressing burr-stones; and it consists of a diamond-carrier supported by a guide-frame hinged to the bed-plate, all as hereinafter more fully described and claimed.

Referring to the drawing, A is the bed of the machine, having two ears, *b*, at each end, between which the end pieces, *c*, of the frame B are pivoted. The end pieces, *c*, are connected by a bar, *d*, and are provided with guides *e*, for receiving the ways *f*. The ways consist of two beveled bars, *g*, which are connected by cross-bars *h*, one at each end. A screw, *i*, is swiveled in each of the cross-bars *h*, and enters an apertured and threaded ear that projects from the end piece of the frame B. Two standards, *k*, each having a curved slot, *l*, are secured to the bed A, one at each end of the bed, and screws *m* pass through the slots *l* into the end pieces, *c*, and clamp the frame B in any desired position.

A carriage, *n*, is mounted on the ways *f*, and is secured by clips *o*, which embrace the beveled sides of the ways. Gibs *p* are placed between the carriage and the ways, and the wear is taken up by screws *q*, that pass through the carriage and bear upon the gibs. The carriage *n* is provided with a guide, *r*, for receiving a bar, *s*, which is arranged at right angles to the ways, and is bored longitudinally and threaded to receive a screw, *t*, which is journaled in a yoke, *u*, attached to the guide *r*, and is provided with a hand-wheel, *v*, on its outer end. Between the yoke *u* and guide *r* a ratchet-wheel, *w*, is placed upon the screw, and a lever, *a'*, is fulcrumed on the shank of the screw, and carries a pawl, *b'*, that engages the ratchet-wheel *w*. A tappet, *c'*, is jointed to the outer end of the lever *a'*, and hangs downward in position to be engaged by the cam *d'*. The cam *d'* is supported by a socket, *e'*, that is placed upon the bar *d*, and may be clamped in any desired position thereon by the set-screw *f'*. The cam *d'* is provided with a shank, *g'*, that is clamped in the socket *e'* by the screw *h'*, so that the cam may be adjusted at different heights, to effect a greater or less movement of the pawl-lever *a'*. To the end of the sliding bar opposite the screw *t* a sleeve, *e'*, is secured, which contains an adjustable rod, *k'*, carrying in its lower end a diamond, *l'*. The rod *k'* is clamped in any desired position by the set-screw *m'*.

The operation of my improved machine is as follows: The bed-piece A is placed on the face of the stone, and the ways *f* are adjusted by means of the screws *i*, so that the diamond, when carried along by the carriage *n*, will cut parallel with the surface of the stone, or deeper at one end of the ways than at its other, as may be desired. The cam-*d'* is adjusted so that as the carriage *n* is moved back and forth on the ways *f* the tappet *c'* is engaged, so as to move the lever *a'* more or less, according to the distance it is desired to move the diamond-cutter at every alternate movement of the carriage *n*.

It will be observed that the cam *d'* is engaged by the tappet *c'* at every movement of the carriage *n* from right to left, and that the tappet folds at every movement of the carriage from left to right.

When it is desired to furrow the face of the stone, the frame B is raised at a suitable angle and is clamped by the screws *m*. When the entire surface of the stone is to be faced the cam *d'* is removed from its socket, and the tappet *c'* is permitted to engage the top of the socket *e'*, which is of the proper height to move the screw sufficiently to cause the diamond to remove every portion of the surface of the stone.

The advantages claimed for my improved machine are, that the work of dressing burr-stones may be rapidly accomplished, and the face of the stone will be dressed perfectly true, irrespective of hard and soft spots.

I am aware that the hinged frame B, having guides *e* and ways *f*, provided with adjusting-screws *i*, carriage *n*, carrying the adjusting-bars *s*, screw *t*, ratchet *w*, and pawl-lever *a' b' c'*, tappet *c' d'*, broadly, are not new.

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

The combination of the bed A, end pieces, *c*, having guides *e*, hinged to said bed and adjustable in front in slotted standards *k l m*, frame *g*, adjustable on said end pieces, to support the carriage *n*, substantially as and for the purpose specified.

DAVID NARRACONG.

Witnesses:

M. BENTLY,

PATRICK KELLY.