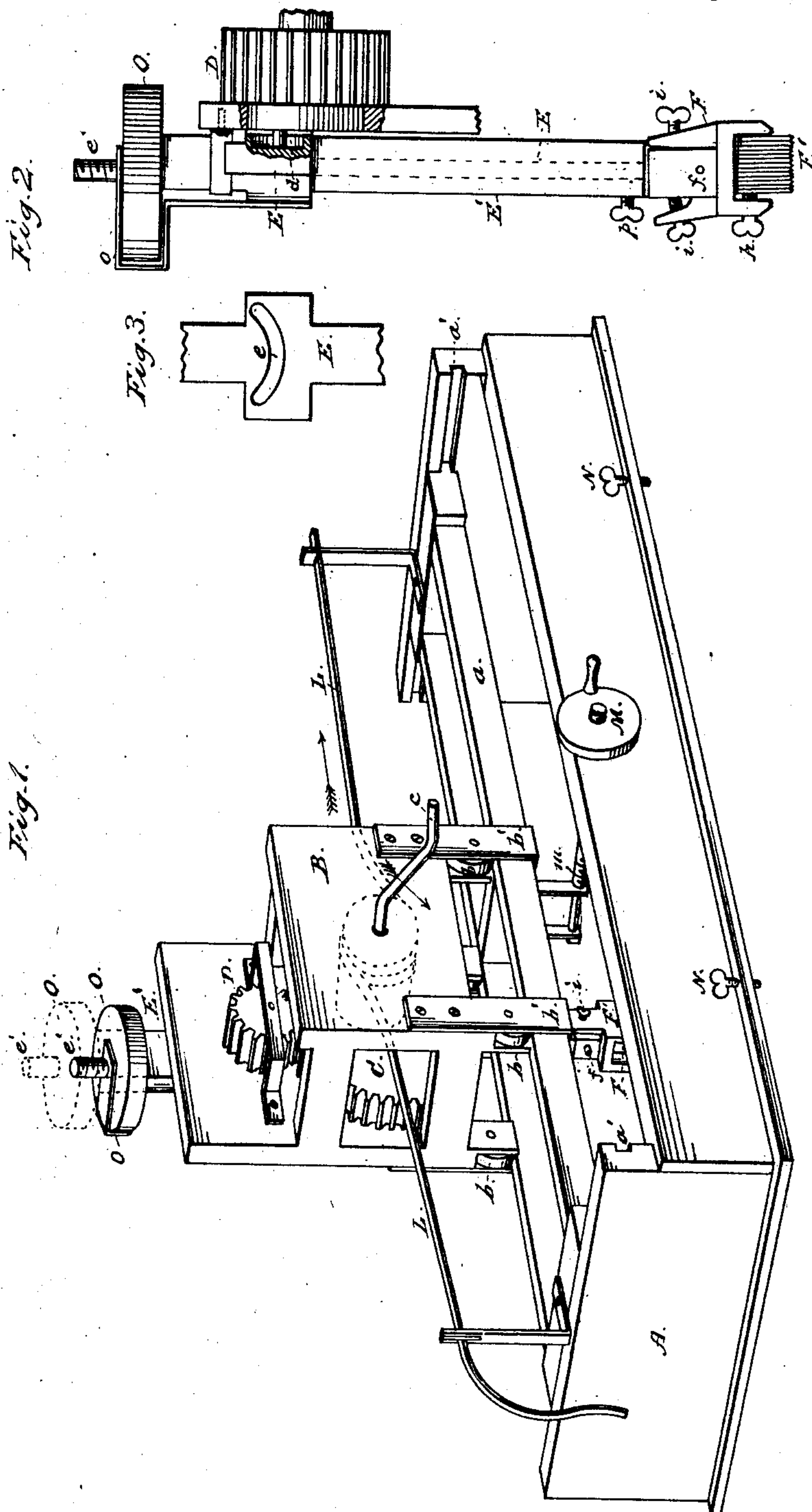


(No Model.)

T. H. ABERCROMBIE.
MILLSTONE DRESSING MACHINE.

No. 244,838.

Patented July 26, 1881.



Attest;
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George Foxnell.

Inventor
Thomas H. Abercrombie
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UNITED STATES PATENT OFFICE.

THOMAS H. ABERCROMBIE, OF HARRIS, GEORGIA.

MILLSTONE-DRESSING MACHINE.

SPECIFICATION forming part of Letters Patent No. 244,838, dated July 26, 1881.

Application filed May 5, 1881. (No model.)

To all whom it may concern:

Be it known that I, THOMAS H. ABERCROMBIE, a citizen of the United States, residing at Harris, in the county of Douglas and State of Georgia, have invented certain new and useful Improvements in Millstone-Dressing Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of the entire device. Fig. 2 is a side elevation of the picker, its shaft, and means for raising or regulating it. Fig. 3 is a detail showing cam-slot in the picker-shaft.

This invention belongs to that class known as "millstone-dressing machines;" and the novelty consists in the details of the construction, and in the combination of the several portions whereby a structure of few parts, easily made, strong and durable, and readily repaired, is produced, all as will now be more in detail set out and explained.

In the accompanying drawings, A denotes any suitable and usual frame on which the operative parts are mounted on the track *a* composed of two parallel horizontal bars extending from end to end of the frame, and near its upper part.

The mechanism is contained in a truck or case, B, suitably mounted on said track *a* by rollers *b*, by means of which it can be moved to and fro on said track. On the outside of said rollers are flanges or guard-strips *b'*, to prevent the rollers coming off the said track sidewise. In one side of this case B is pivoted the gear-wheel C, which is operated by a crank, *c*, and by any suitable power connected therewith. This gear-wheel meshes with a pinion, D, above it, which has a pin or arm *d* eccentrically attached to it, working in a curved slot, *e*, in the upper end of the picker staff or rod E. This staff-rod is placed inside the casing E', held in proper guides on the side of the truck or case B, and when the gear-wheel is revolved is caused by the operation of pin *d* in slot *e* to have an alternately rising and

falling movement, thus communicating the proper motion to the picks F' at its lower end. These picks are confined in the lower end of the staff E in a detachable foot-piece, F, which is held or pivoted upon E by the bolt *f*, or in any convenient way or manner. The picks are held in this foot-piece by set-screw *h*. The foot-piece may be changed from the face to the furrow of the stone by means of the set-screws *i*, which will cause the said foot-piece to swing or move slightly either way, as may be desired, on the bolt or pivot *f'*, by which it is hinged in the foot-piece.

The belt L, secured at each end of the machine and passing around the shaft which turns the gear-wheel C, causes the truck or case B to move forward or back along the track *a*, as may be desired, and regularly with the operations of the picks, when they are worked by the above-described means.

At right angles to the tracks *a*, and at their ends where they meet the end of the machine-frame, is a track or slot, *a'*, in the frame A, in which this track *a* may be moved sidewise back or forth from front to rear of the machine, and to any convenient place, by means of the screw-shaft *m*, operated by the handle and wheel M.

The set-screws N on the lower edges of the frame, on each side, will enable the machine to be set in proper position to dress light or deep at the eye or the rim of the stone.

The picker-staff E can be raised or lowered by means of the wheel O on its screw-threaded top *e'*, said wheel being held in support *o* on the case E' or truck B, and by means of the set-screw *p* in the case in which the staff moves the staff may be secured in any desired vertical position.

Instead of the casing E' for the picker-staff any suitable guides may be used.

The device as thus constructed is very cheaply made, and will operate in the most effective manner. Being very strong it will wear a long time, and being very simple in structure it can be very easily repaired.

I am aware that heretofore in millstone-dressing machines the picks have been worked by means of a hammer operated by a trip mechanism independent of it; also, that means have been used to place the stone in proper adjustment with the picks; but in none of these ma-

chines have the ends I desire to accomplish been gained in like manner as in my device, which is compact and strong and easily operated.

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

1. In a millstone-dressing machine, the combination of frame A and ways or track *a* with the truck or case B, gear-wheel C, pinion D, 10 having eccentric-pin *d*, and picker-staff E, slotted at *e*, having picks F' fixed upon its lower end, substantially as described.

2. In combination with the case or truck B,

actuated as described, the picker-staff case E', staff E, having screw-threaded end *e'*, and adjustable wheel O, substantially as described. 15

3. The picker-case F, having picks F', and pivoted to the staff E, and adjustable by means of set-screws *h* and *i*, substantially as described.

In testimony whereof I affix my signature 20 in presence of two witnesses.

THOMAS H. ABERCROMBIE.

Witnesses:

JNO. E. ROACH,

ANDERSON ARNOLD.