

W. Bold,

Dressing Millstones.

N^o 83,243.

Patented Oct. 20, 1868.

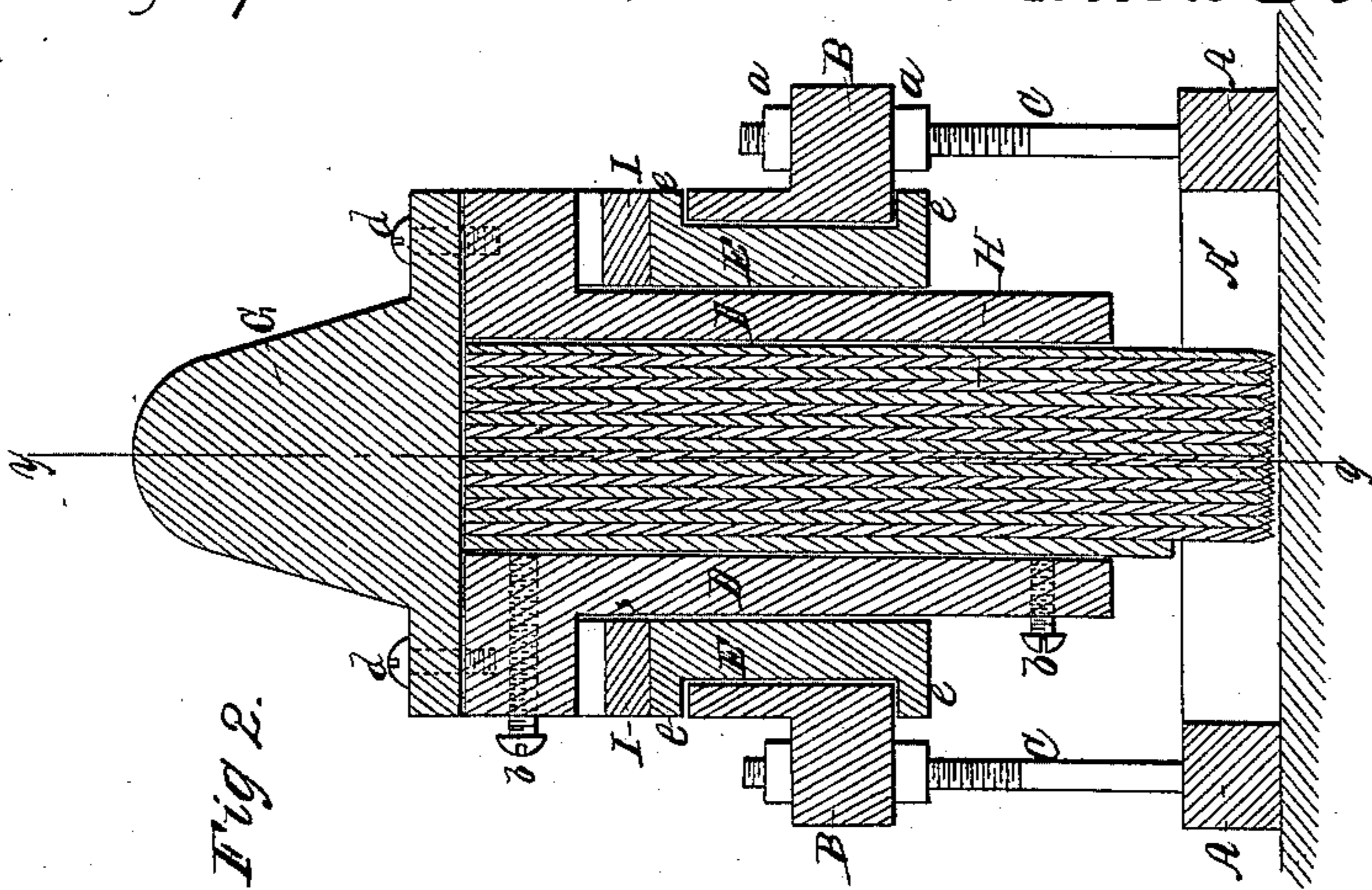


Fig 2.

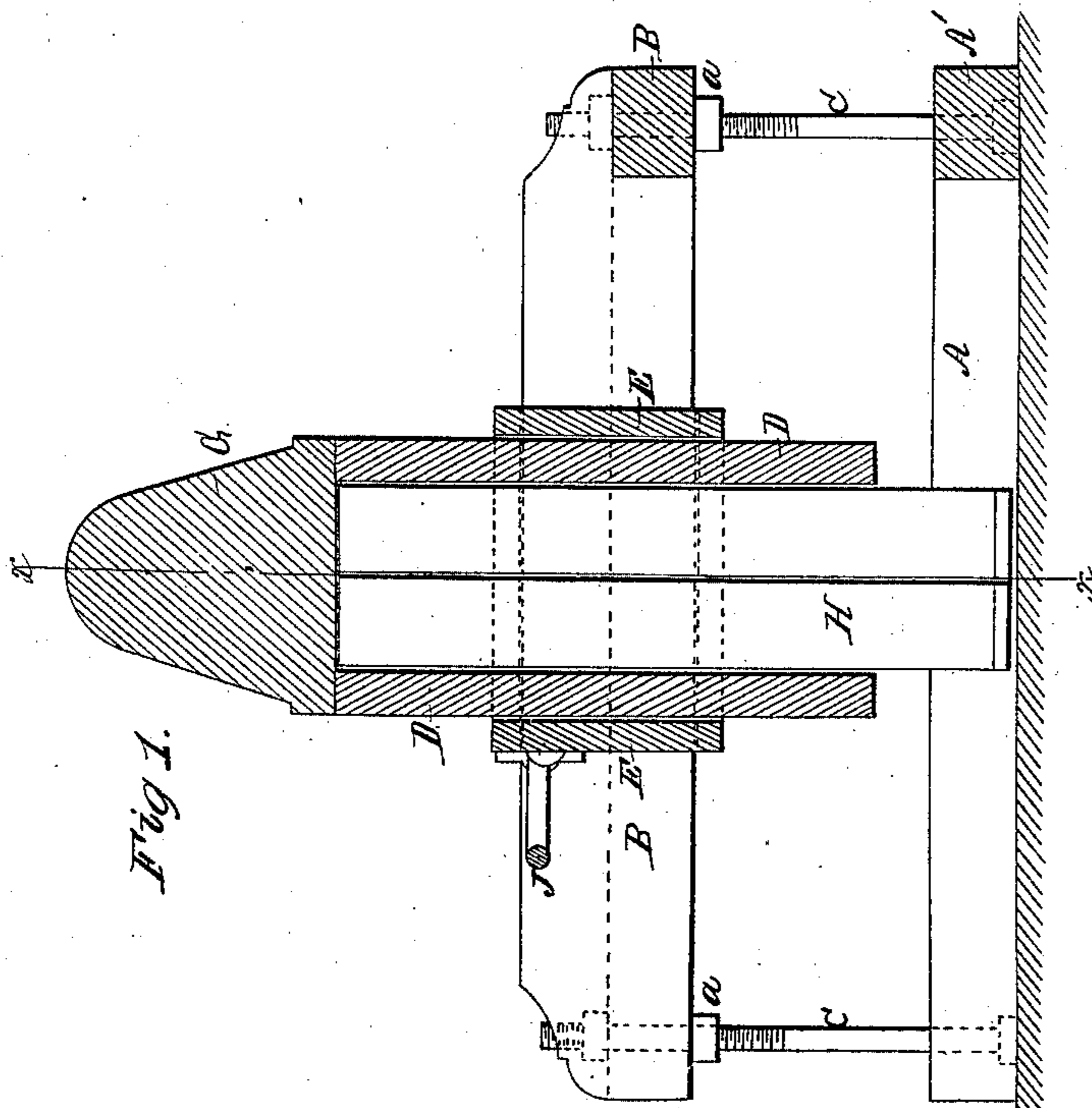


Fig 1.

Witnesses.

Wm A Morgan
G L Cotton

Inventor.

Wm Bold

per Murray &
attorneys

United States Patent Office.

WILLIAM BOLD, OF SHEBOYGAN FALLS, WISCONSIN.

Letters Patent No. 83,243, dated October 20, 1868.

IMPROVED MACHINE FOR DRESSING MILLSTONES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM BOLD, of Sheboygan Falls, in the county of Sheboygan, and State of Wisconsin, have invented a new and improved Machine for Dressing Millstones; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a section of my improved machine, through the line *y y*, Figure 2, which latter is a section through the line *x x* of fig. 1.

Similar letters of reference indicate corresponding parts.

The object of my invention is to accomplish the cutting or dressing of the "lands," so called, of millstones in an easy and expeditious manner.

It consists of the parts in combination, as hereinafter set forth.

In the drawings—

A A' is the bottom, and B B' the top frame of the machine, the said frames being connected by four screw-standards C, which latter are provided each with nuts *a a*, as shown, for the purpose of holding the top frame rigidly.

The bottoms of the standards are firmly affixed in the bottom frame in any suitable manner.

By means of these screw-standards the top frame, which bears the sliding pick-block, may be lowered as the pick-plates held in the said pick-block become worn.

The parts B of the top frame serve as guides for the pick-block holder E, which latter is formed with flanches *e e* to fit thereon, as shown at fig. 2, thus enabling the pick-block and pick-plates to be moved horizontally, by the sliding of the said holder E in its guides.

A number of flat pick-plates, H, of tempered steel, are held in the hollow pick-block D, fitting compactly in the cavity thereof, and the said block fits with easy contact in the holder E, which latter is a hollow block, open at top and bottom, as shown, to receive the pick-block, and permit it vertical motion.

Two rubber cushions, I I, are interposed between the projecting parts of the block D and holder E, as shown, for the purpose of yielding sufficiently to permit the pick-plates to cut the stone, when the solid cap G is struck with a hammer or mallet by the operator.

The cap, G, is affixed to the pick-block, by means of screws *d*, so that it can be removed for a purpose to be shown.

Set-screws *b*, at top and bottom of the pick-block,

serve to hold the pick-plates firmly in the said block. The frames have cross-pieces B' A' at one end only, so that the pick-block holder and the pick-holder can be readily withdrawn from the frame to reset the pick-plates, as will be shown.

J is a handle for moving the pick-block holder along in the guides when in operation.

This machine is intended to dress an entire land, from the eye out to the rim, without moving the frame, and the operation consists in merely striking on the cap, G, with a mallet or hammer held in one hand, while the other is employed in pushing the holder E along on its guides.

In practice, the seat-board is screwed to the bottom of the bottom frame, the said board having a slot cut therein, of sufficient width to pass the pick-plate through it.

When the pick-plates are dulled, they are taken out and ground, and returned to the block again.

The set-screws *b* are then set up against them lightly.

The cap, G, is then removed, and the cutting-edges of the pick-plates set on some hard, level surface to bring them all even with each other, and their top ends just clear of the top of the pick-block D.

The tops of the plates are then filed off even, and the cap, G, replaced, and, when firmly screwed down, the set-screws *d* are firmly screwed in.

The cushions serve to raise the picks from the stone after each blow of the operator.

As the pick-plates are worn off at their points, the top frame is lowered, by turning the nuts *a a*, as will be obvious from what has been set forth.

As now made, the blows upon the cap are delivered by hand, but I contemplate providing the machine with a hammer-attachment, whereby a hammer or mallet will be made to deliver blows upon the cap by simply turning a crank.

The machine may be furnished with or without the striking-attachment, as desired by the buyer.

I claim as new, and desire to secure by Letters Patent—

The combination of the pick-block holder E and pick-block D, having the adjustable pick-plates H and removable cap G, with each other, and with the adjustable frame A B, substantially as described, for the purpose specified.

WM. BOLD.

Witnesses:

B. F. VANNATTER,
THOMAS EICHORN.