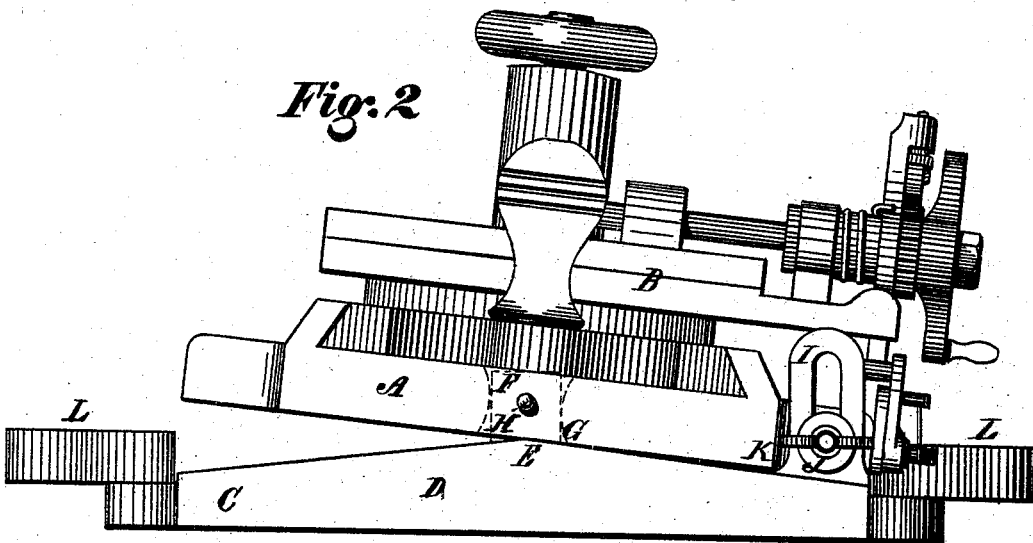
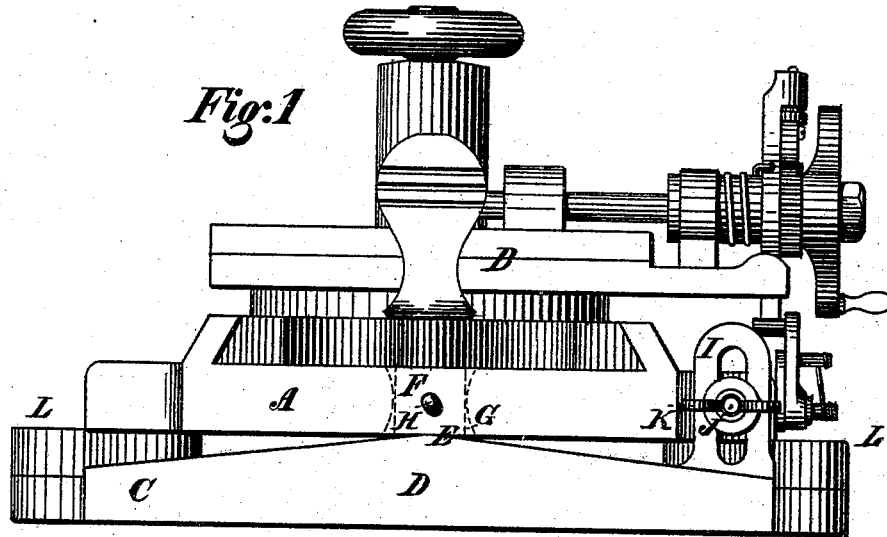


W. P. UHLINGER.

DIAMOND MILLSTONE DRESSING MACHINES.

No. 182,538.

Patented Sept. 26, 1876.



Witnesses

*W. R. Wright*  
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*By*

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# UNITED STATES PATENT OFFICE.

WILLIAM P. UHLINGER, OF PHILADELPHIA, ASSIGNOR TO SAMUEL E. GRISCOM, OF POTTSVILLE, PENNSYLVANIA.

## IMPROVEMENT IN DIAMOND MILLSTONE-DRESSING MACHINES.

Specification forming part of Letters Patent No. **182,538**, dated September 26, 1876; application filed July 10, 1876.

*To all whom it may concern:*

Be it known that I, WILLIAM P. UHLINGER, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Diamond Millstone-Dressing Machines, of which I hereby declare the following to be a full, clear, and precise description, and sufficient to enable others skilled in the art to which it appertains to construct and employ my said improvement, reference being had to the accompanying drawing, forming part of this specification, and of which—

Figure 1 is an end elevation of my improved machine set for land-dressing, and Fig. 2 a similar view of the same, but in position for dressing furrows.

Similar letters of reference denote like parts of whatever used.

This invention is especially an improvement upon Letters Patent No. 156,109, granted to me October 20, 1874, for a machine for dressing millstones, or upon Letters Patent No. 144,851, granted to Larer and Griscom November 25, 1873, for diamond millstone-dressing machine, but is equally applicable to any machine of a kind similar to those recited and operating in the same way.

The object of this improvement is to adapt ordinary machines for dressing the surface or lands of millstones to dress the furrows, to which end it consists as follows:

A in the drawing represents the bed-plate proper of the Larer machine; B, its sliding frame, carriage, and actuating mechanism. C is a fixed base-plate, the under surface of which is made perfectly true, while the upper surface of its end cross-pieces D rises from both sides to a common central elevation, E, upon the summit of which elevation are mounted studs F, shown in dotted lines in the drawing, which pass through slots G in the cross-bars of the bed-plate, by means of which arrangement, when completed by the employment of pins H, the bed-plate is pivoted upon the base-plate centrally in a longitudinal direction, so that, if unsecured, it could be freely inclined to either side.

Mounted upon the sides of the base-plate

are curved slot-standards I, through which standards pass screws J projecting endwise from the sides of the bed-plate, upon which screws are threaded thumb-nuts K, which serve, when tightened up, to secure the bed-plate rigidly at any desired inclination with respect to the base-plate. Upon either side of the base-plate wedge-pieces L are pivoted in such manner that, when turned in upon both sides at the same time, they support the bed-plate in a true horizontal position for land-cutting.

Such being the construction of my improvement, it is obvious that, by throwing the wedge-pieces out of position beneath the bed-plate, loosening the thumb-nuts, giving the desired inclination to the bed-plate, and again tightening up the nuts, the bed-plate can be maintained at any inclination corresponding to that of the furrow to be dressed, enabling the machine to dress a furrow automatically in either direction, and with the same ease with which it can dress land, the advantage of which arrangement is that no adjustment of the hand-wheel is necessary to set up the cutter at the end of each longitudinal throw.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A pivoted bed-plate, A, in a diamond dressing-machine, so arranged as to enable the machine to dress either a right or left hand furrow automatically, substantially as described.

2. The wedge-pieces L, for the purpose specified.

3. The combination of the pivoted bed-plate A, curved slot-standards I, thumb-screws J K, and base-plate C, the whole forming a device for maintaining the bed-plate at any desired inclination, substantially as and for the purpose specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM P. UHLINGER.

Witnesses:

J. BONSALE TAYLOR,  
OWEN DORCY.

