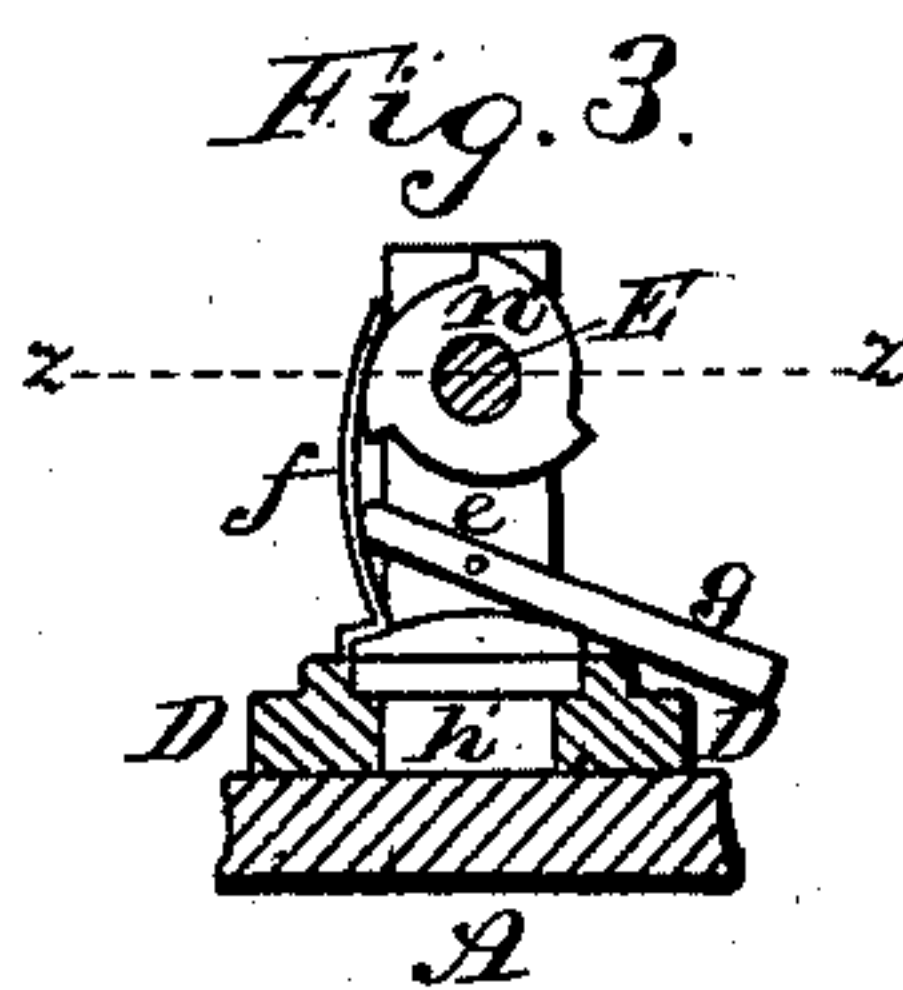
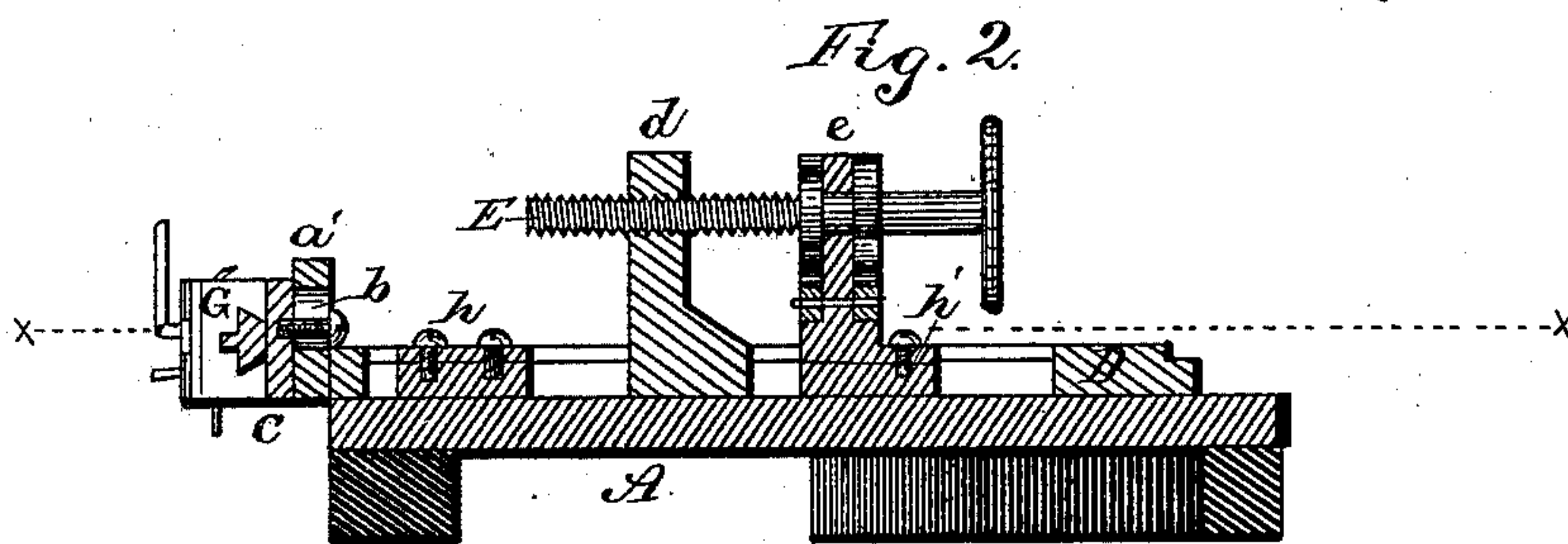
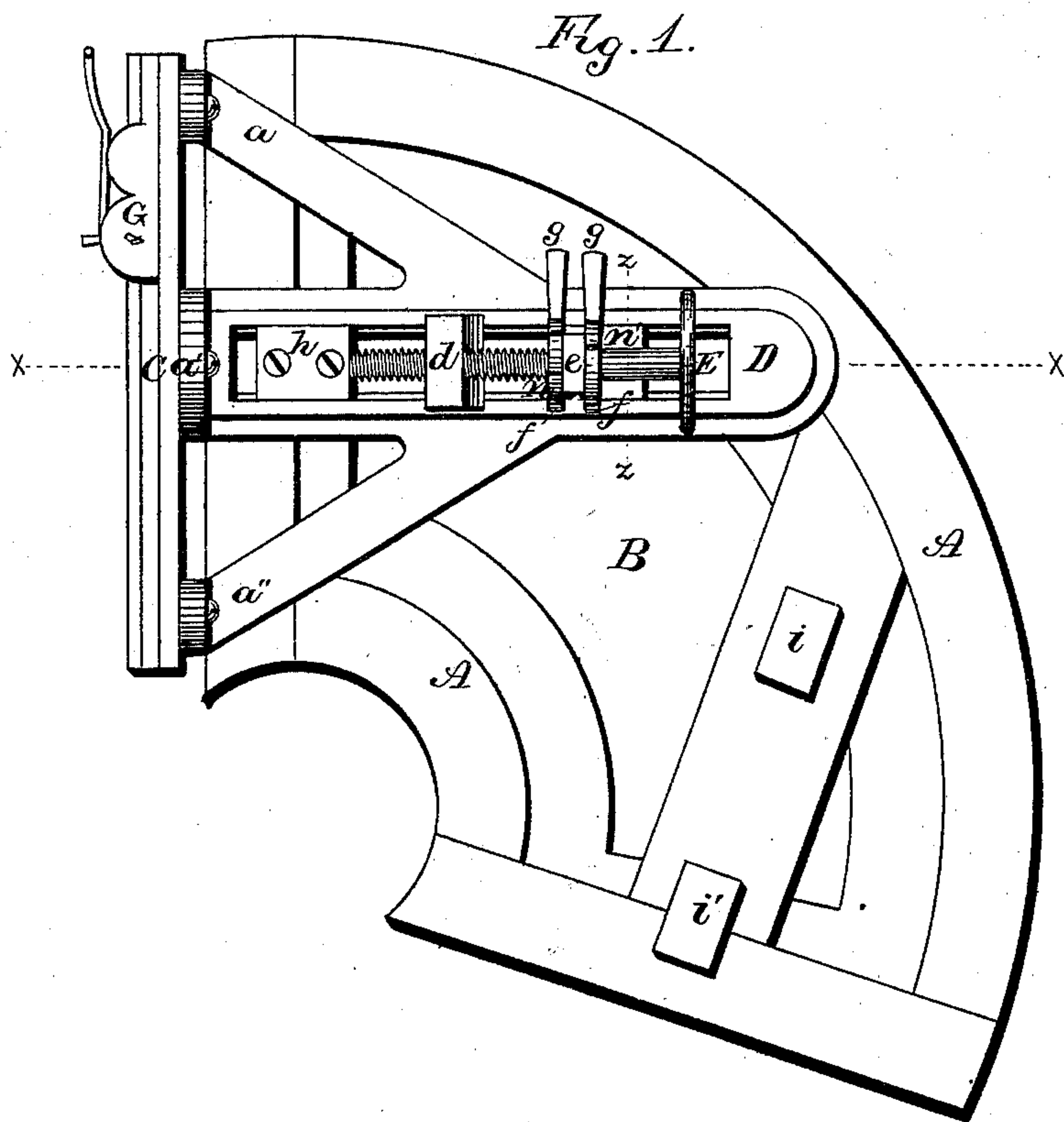


G. W. JONES.  
Device for Dressing Millstones.

No. 222,707.

Patented Dec. 16, 1879.



Witnesses:

J. W. Garner  
Wm. W. Mortimer

Inventor:

Geo. W. Jones,  
per  
F. A. Lehmann,  
Atty.

# UNITED STATES PATENT OFFICE.

GEORGE W. JONES, OF MANSFIELD VALLEY, PENNSYLVANIA.

## IMPROVEMENT IN DEVICES FOR DRESSING MILLSTONES.

Specification forming part of Letters Patent No. **222,707**, dated December 16, 1879; application filed October 21, 1879.

*To all whom it may concern:*

Be it known that I, GEORGE W. JONES, of Mansfield Valley, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Devices for Dressing Millstones; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in devices for dressing millstones.

It consists in a segmental bed-plate which rests upon the stone, supporting a cutter-bar and cutter with its apparatus for adjustment, which latter may be placed at either side of the bed-plate to operate with or against the sun, as will be more fully described hereinafter.

The accompanying drawings represent my invention.

Figure 1 is a plan view of my invention, and Figs. 2 and 3 are detail sections of the same.

The bed-plate A is in the form of a segment of a circle, somewhat larger than a quadrant, its sides being tangential to a smaller circle than the central opening, B, but its outside conforming to the stone to be dressed, upon which it is placed.

The under side of the bed-plate is to be covered by a layer of india-rubber to prevent its sliding during the operation of dressing.

A cutter-bar, C, is supported parallel to the side of the bed-plate by the arms *a a' a''* of a sliding frame, D, to be raised or lowered and held by screws passing through slots *b* in the elevated ends of the arms.

The sliding frame D upon the bed-plate is moved and controlled by the feed-screw E, which passes through the stationary block *d*, and the block *e* upon the movable part of the frame.

Upon the feed-screw, at the sides of the block *e*, are ratchets *n n'*, the number of notches on which differs, which ratchets are checked by springs *f*.

The levers *g*, bearing against the springs when raised, serve to disengage them from

the ratchets, so that when the feed-screw is turned, either one of the springs may, by clicking, after passing over a notch on the ratchet, indicate the distance the cutter-bar has been moved.

The blocks *h h'* serve as guides for the movable frame D, and the blocks *i i'* answer the same purpose when the frame is removed to the opposite side.

Upon the cutter-bar slides the block G, carrying the cutter, which may be raised or lowered at pleasure, and is operated by hand.

The sides of the bed-plate A being, as stated, not radial to the center of the stone, the cutter-bar and cutter, parallel to the sides of the bed-plate, become diagonal to the radial furrows of the stone, which is the direction in which the cracks (or smaller furrows) ought to be made.

By turning the feed-screw until the proper distance between the cracks is indicated by one of the springs on a ratchet, the land between the cracks is readily made uniform, and the same operation is applied to obtain the width of the cracks, which are cut by simply moving the cutter back and forth.

I am aware that sliding blocks carrying the cutter, cutter-bars, and feed-screws to move their position are not new, and these I therefore disclaim; but having simplified the arrangement of former devices obtaining as good, if not better, results,

I claim—

1. In a device for dressing millstones, the segmental bed-plate A, its two sides being tangential to a circle smaller than the central opening, substantially as shown and described.

2. In a machine for dressing millstones, the combination of the bed-plate A, sliding frame D, cutter-bar C, feed-screw E, stationary block *d*, block *e*, ratchets *n n'*, springs *f*, and levers *g*, the frame being provided with the guides *h h'*, substantially as shown.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of October, 1879.

GEORGE W. JONES.

Witnesses:

JNO. A. BELL,  
WILBERT J. GLENN.