A. RANTS.

MILLSTONE ADJUSTMENT.

No. 186,019. Patented Jan. 9, 1877.

Fig. 1.

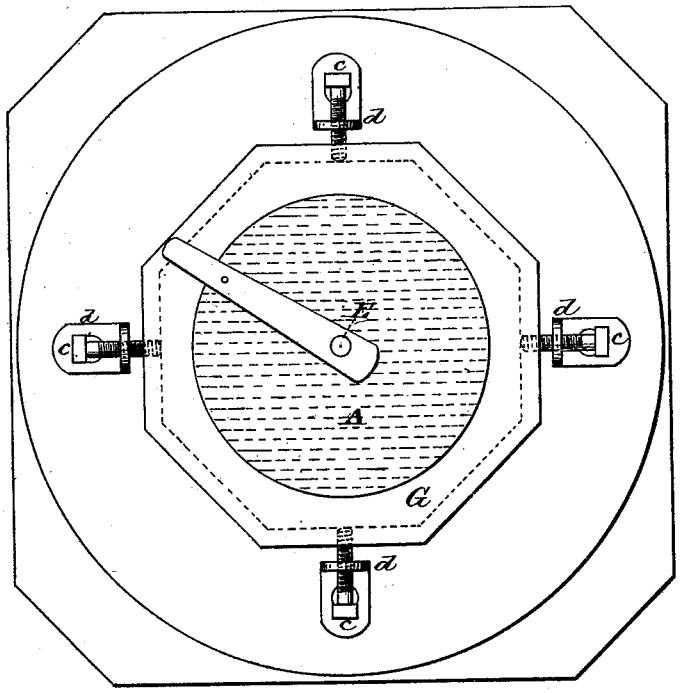
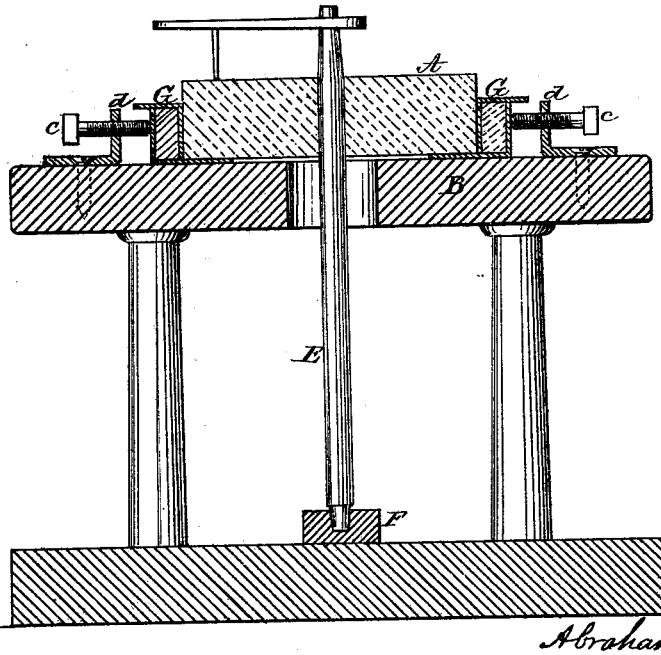


Fig. 2.



Witnesses:
H. Garrett
S. Woods.

Inventor:
Abraham Rants.
By J. C. Lotz Atty

UNITED STATES PATENT OFFICE.

ABRAHAM RANTS, OF FORT RECOVERY, OHIO.

IMPROVEMENT IN MILLSTONE ADJUSTMENTS.

Specification forming part of Letters Patent No. **186,019**, dated January 9, 1877; application filed May 6, 1873.

To all whom it may concern:

Be it known that I, ABRAHAM RANTS, of Fort Recovery, in the county of Mercer and State of Ohio, have invented certain new and useful Improvements in Devices for Adjusting Millstones; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and the letters of reference marked thereon, which form a part of this specification, and in which drawings—

Figure 1 is a plan view, and Fig. 2 is a vertical section.

My invention relates to the adjustment of millstones and their driving-shafts, for the purpose of more readily placing and keeping in train their bevel-gearing.

It is well known that the bevel-gearings of millstone-driving shafts are very expensive, and liable to great injury by imperfect adjustment. The construction of the gearing requires the driving-shaft to be placed and kept perfectly plumb, which is usually accomplished by first locating the bed-stone, and then adjusting the step holding the lower end of the shaft. My invention consists in the adjustment of the bed-stone by means of separate brackets provided with set-screws, and adapted to be attached at any required position on the floor or platform upon which the stone rests, thus plumbing the shaft and keeping in train the gearing by the adjustment of the upper instead of the lower end of the shaft, as hereinafter more fully described.

A represents the bed-stone snugly fitted in a frame or casing, G, which sets on the floor or platform without being otherwise attached or fastened to the floor. External to the frame G I attach to the floor or platform three or more brackets, *d*, having set-screws *e*, by means of which the stone, with its inclosing-frame, is adjusted laterally and securely held in the desired position.

The frame or inclosure G may be dispensed with, and the ends of the set-screws allowed to impinge against the stone, but I prefer to use the frame.

By this arrangement of devices the stationary stone, which is usually the under stone, may be adjusted in any desired direction without interfering with the pitch-line of the cog-wheels which drive the runner, and the inconvenience and cost consequent upon the adjustment by the old plan are avoided. And great advantage is gained by the adjustment of the upper and long end instead of the lower and short end of the drive-shaft, because the relative position of the gearing is affected much less by a movement of the upper end than by an equal movement of the lower end of the shaft. And hence the gearing is less liable to get out of perfect adjustment, and is capable of being more readily readjusted.

I am aware that brackets, cast upon a bed-plate, have been used for holding millstones; but such brackets are not separately adjustable, nor adapted to be used with different-size stones, while separate brackets, constructed to be attached at any required point on a floor or platform, as described, are adjustable separately, adapted to be used with different-size stones, and save all of the material composing the bed-plates of the fixed brackets.

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

In combination with millstone A and lengthened drive-shaft D, with or without frame G, the separate brackets *d*, having set-screws *e*, adapted to be attached to and adjusted separately at any required position on a floor or platform, substantially as and for the purposes described.

ABRAHAM RANTS.

Witnesses:
W. MEINERDING,
WM. S. HERON.