J. SMITH & J. SNASHELL.

BALANCE-RYNDS.

No. 194,185. Patented Aug. 14, 1877.

Fig. 1.

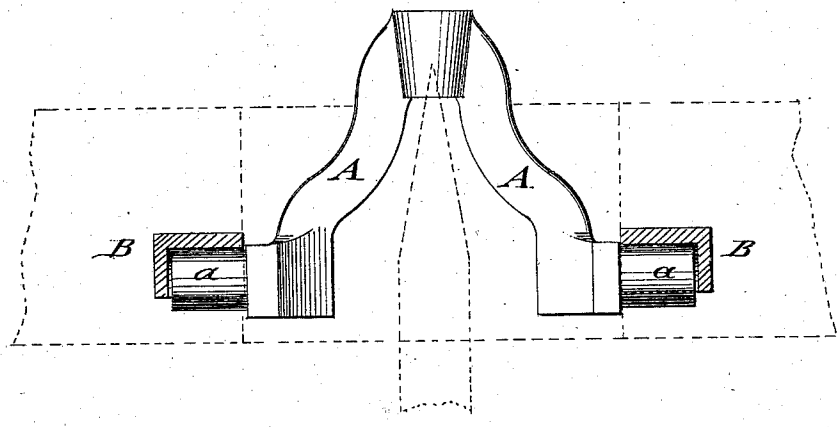
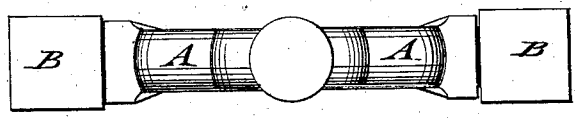


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN SMITH AND JABEZ SNASHELL, OF BUFFALO, NEW YORK.

IMPROVEMENT IN BALANCE-RYNDS.

Specification forming part of Letters Patent No. **194,185**, dated August 14, 1877; application filed June 18, 1877.

To all whom it may concern:

Be it known that we, JOHN SMITH and JABEZ SNASHELL, of Buffalo, county of Erie, and State of New York, have invented a new and Improved Balance-Rynd, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation, and Fig. 2 a top view, of our improved balance-rynd for millstones.

Similar letters of reference indicate corresponding parts.

The object of our invention is to furnish an improved balance-rynd for millstones, by which the upper stone or runner is so poised on the rynd that it adjusts itself at all times to any unevenness in the bed-stone, and insures thereby greater uniformity in grinding.

The invention consists of a balance-rynd with pivots at the lower diametrically-opposite points, on which the stone is balanced by boxes let into the same.

In the drawing, A represents a balance-rynd, which is poised on the top of the spindle, and driven by the same, in the usual manner. The lower ends of the rynd are provided with pivots *a*, at diametrically-opposite points, on which the runner rests by means of boxes B, that are let into the same. This support of the runner leaves the stone free to find its own balance, and takes the place of the fixed connection of the rynd with the runner. The boxes B fit the pivot ends of the rynd, and allow the latter to oscillate without throwing the stone out of balance by the action of the drivers on the rynd. The runner adjusts itself, by the oscillating rynd, at all times to the bed-stone, and insures the uniform running and grinding of the same.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

A balance-rynd having pivots at the lower and diametrically-opposite ends, in combination with boxes set into the upper stone or runner, for balancing the same thereon, substantially as described, and for the purpose specified.

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Witnesses:
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