

W. J. MERRITT.

MODE OF DRESSING MILL-STONES.

No. 173,733.

Patented Feb. 22, 1876.

Fig. 1

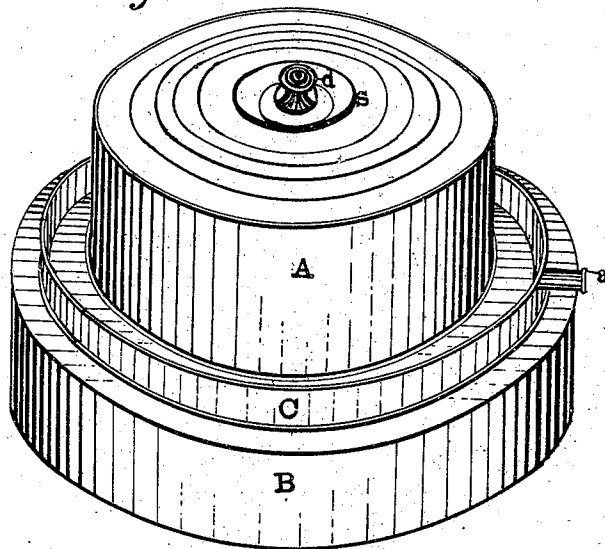
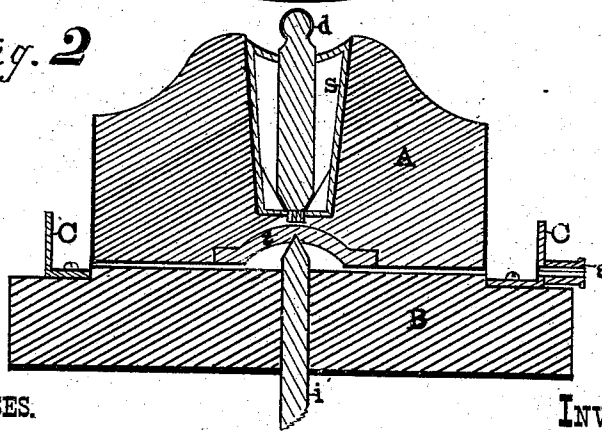


Fig. 2



WITNESSES.

J. F. Price
Thos. Harrison

INVENTOR.

Wm. J. Merritt.

UNITED STATES PATENT OFFICE.

WILLIAM J. MERRITT, OF BARDOLPH, ILLINOIS.

IMPROVEMENT IN MODES OF DRESSING MILLSTONES.

Specification forming part of Letters Patent No. **173,733**, dated February 22, 1876; application filed December 2, 1875.

To all whom it may concern:

Be it known that I, WILLIAM J. MERRITT, of Bardolph, in the county of McDonough and State of Illinois, have invented a new and useful Mode for Dressing Millstones, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view, and Fig. 2 is a cross-section of the same.

The object of this invention is for the purpose of dressing and facing millstones; and its novelty consists in surrounding the bed-stone with a water-tight hoop, or other suitable device that will hold water around the stones while in the act of dressing; also, in combination with the bed-stone, surrounded with a hoop, a cylinder fitted in the eye of the upper stone, provided with a plug, as hereinafter fully explained.

In the drawings, A A represent the upper stone or runner, in the eye of which is inserted a tapered cylinder, *s*, in which is fitted an air-tight plug, *d*. B B represent the bed-stone, around which is placed the hoop C. *i* represents the spindle, and *t* the yoke.

The operation is as follows: The hoop C is placed around the bed-stone B, as shown in Fig. 1, and is made water-tight by any suitable means. The cylinder *s* is inserted in the eye of the upper stone A, and is fitted with any suitable packing that will make it air-tight. The plug *d* is then withdrawn and water poured in through the cylinder *s* into

the eye of the stone until it is three or four inches deep in the hoop C. The plug *d* is then inserted into the cylinder *s*, which is to prevent any air from getting in at the eye of the stone. The upper stone A is then put in motion by the usual means, and its whole weight is let down on the bed-stone, and they are allowed to run in this manner until the face of each stone is ground perfectly true.

The water prevents the stones from heating, and also washes out all the gummy substance that commonly adheres to the stones.

The pipe *a* is to let out the water after the operation is over.

By this mode of dressing millstones the face of each stone is made perfectly true, and the edges of the grooves and cellular portions of the stones are sharpened, and made ready for grinding without the use of the common pick.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The bed-stone B, provided with the water-tight hoop C, for holding water around the stones while in the act of dressing, substantially as and for the purpose set forth.

2. In combination with the bed-stone B and hoop C, the cylinder *s* and plug *d*, all operating substantially as described, for the purpose specified.

WM. J. MERRITT.

Witnesses:

THOS. J. PRICE,
W. T. PRICE.