

E. DEER.  
Millstone Dress.

No. 197,208.

Patented Nov. 20, 1877.

Fig. 1.

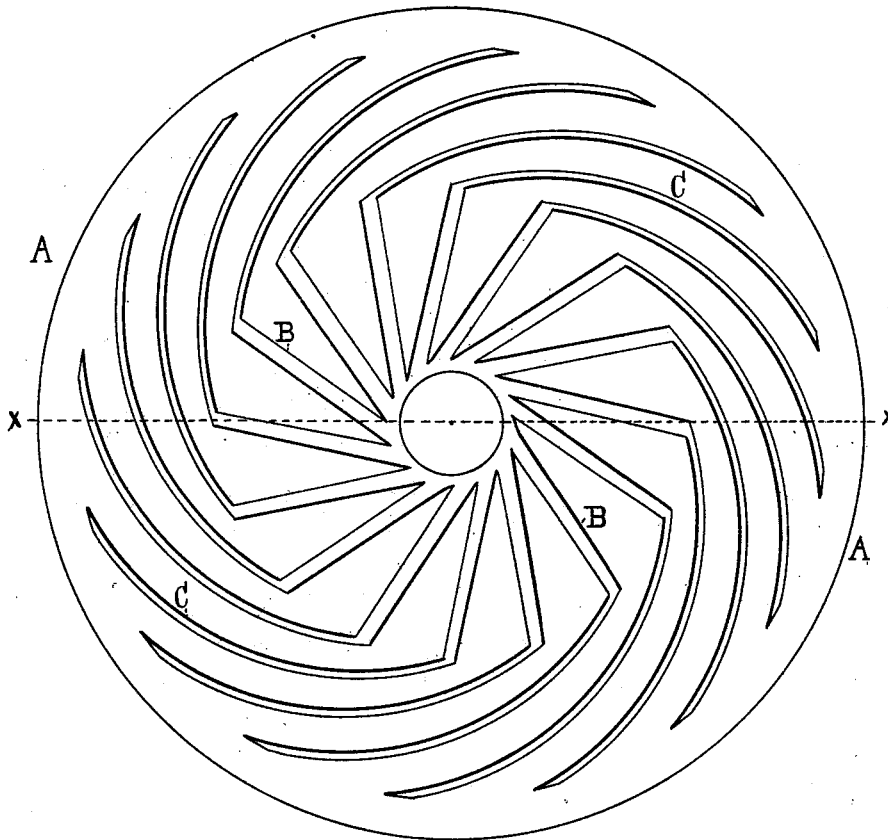
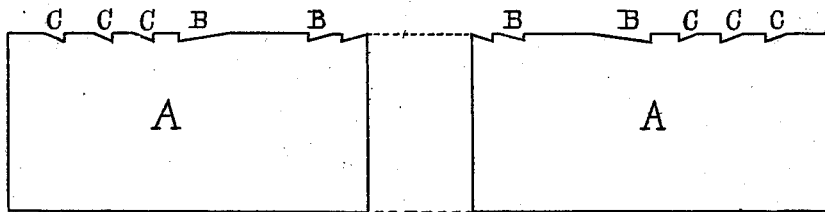


Fig. 2.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

EDMUND DEER, OF ANNAPOLIS, INDIANA.

## IMPROVEMENT IN MILLSTONE - DRESSES.

Specification forming part of Letters Patent No. **197,208**, dated November 20, 1877; application filed July 28, 1877.

*To all whom it may concern:*

Be it known that I, EDMUND DEER, of the town of Annapolis, county of Parke and State of Indiana, have invented certain new and useful Improvements in Millstone-Dress, of which the following is a specification:

Reference is had to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts.

Figure 1 is a plan or face view of a millstone having my improved dress, and Fig. 2 is a transverse vertical section thereof.

In said drawings, A represents the body of the ordinary stone; B B, furrows constituting the ordinary dress, which, in my invention, extends over the central portion of the stone only; C C, curved or circling furrows, which extend from the terminal line of the furrows B B to the periphery of the stone, or a point contiguous thereto, and in which the dress is so changed that while the deep portion of the furrows B B are on the outer or side nearest the periphery, these have the deep portion on the inner or side nearest the eye of the stone.

The advantages incident to this construction are, first, that the short or intermediate furrows necessary to the old style of construction are entirely done away with by reason of the curved furrows covering the space more effectually and not leaving the lands between them so large; and, second, by reason of the bevel running in the opposite direction to that generally used, the grain is not forced up by the power of the stone, but by the centrifugal force, which has at the point of juncture between the two styles of furrows become sufficient for that purpose, and which, while it keeps the grain grinding to the full capacity of the stones, does not crowd them, and thus lead to uneven grinding; but, instead, grinds in the most even and perfect manner, while

the discharge of the flour or meal is greatly accelerated, and the flour itself is ground much more evenly and perfectly. I generally use my improved dress on the lower or stationary burr; but, by reversing it, it may be used on the upper burr or runner, and is thus made suitable for one or both burrs at pleasure.

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

1. A millstone-dress in which the inner end of the furrow shall be straight and the outer end curved or circling, with the deep portion of the straight end on the opposite side to that of the circling end, substantially as herein shown and described.

2. A millstone-dress in which the outer ends of the furrows shall have the feather-edge on one side, and the inner ends shall have the feather-edge on the other side, substantially as herein shown and described.

3. A millstone-dress consisting of two sets of furrows, one of which said sets of furrows shall commence at or near the eye of the stone and terminate between the eye and the periphery thereof, and the other of which shall commence at or near the point of termination of the first, and terminate at or near the periphery of the stone, in which the outer set shall have the shallow or feather edge nearest the periphery of the stone, so that the feeding of the grain over this portion shall be done by centrifugal force, substantially as specified.

In witness whereof I have hereunto set my hand and seal at Indianapolis, Indiana, this 25th day of July, A. D. 1877.

EDMUND DEER. [L. S.]

In presence of—  
C. BRADFORD,  
M. J. VIEIRA.