

H. T. ASHWORTH.
Mill-Stone Dress.

No. 162,878.

Patented May 4, 1875.

fig. 1

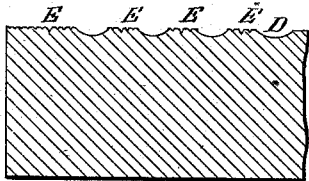


fig. 2

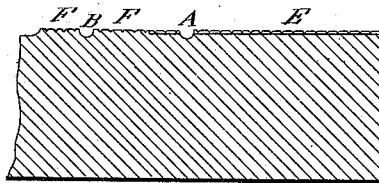
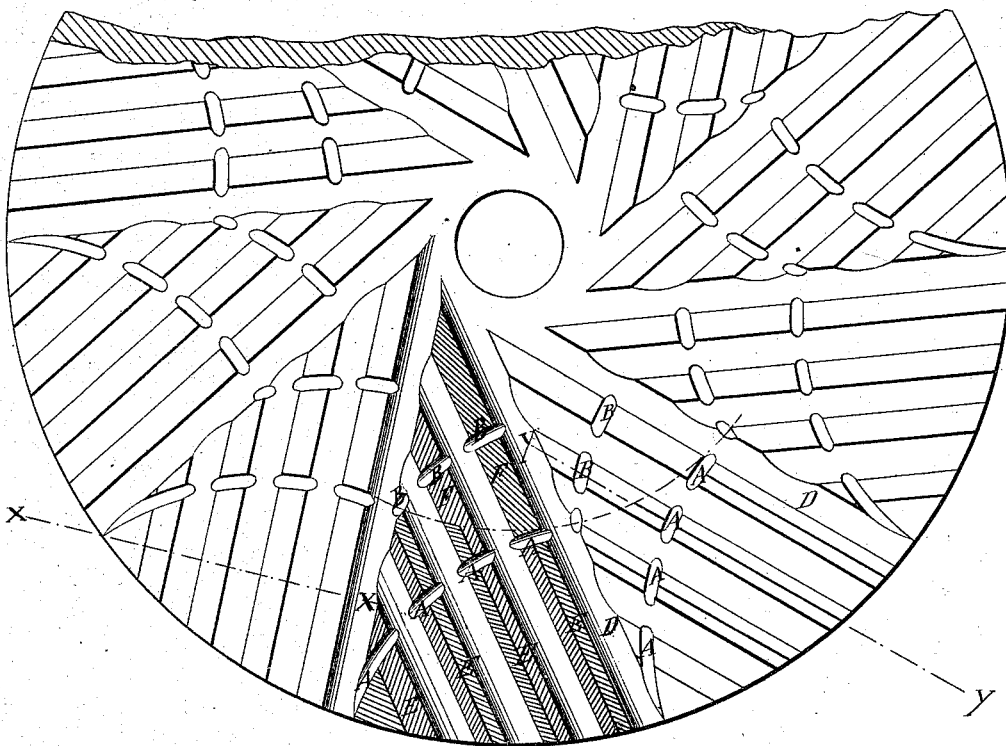


fig. 3



WITNESSES:

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UNITED STATES PATENT OFFICE.

HARVEY T. ASHWORTH, OF BERGER'S STORE, VIRGINIA, ASSIGNOR TO HIMSELF AND JAMES T. GRAVES, OF SAME PLACE.

IMPROVEMENT IN MILLSTONE-DRESS.

Specification forming part of Letters Patent No. 162,878, dated May 4, 1875; application filed May 16, 1874.

To all whom it may concern:

Be it known that I, HARVEY T. ASHWORTH, of Berger's Store, Pittsylvania county, Virginia, have invented a new and Improved Millstone-Dress, of which the following is a specification:

My invention consists of ventilating-grooves crossing the lands, said grooves being contrived by curving from the periphery, or from that direction backward relatively to the direction in which the stone runs, in a sweep toward the eye so as to have a tendency to draw in the air from the periphery for ventilating the stone. My invention also consists in cracking the lands diagonally in the inner portion of the stone, and arranging those of one land reversely to those of the next, as a further means of increasing the cutting action.

Figure 1 is a section of a millstone having my improved dress, the section being taken on the line *x x*, Fig. 3. Fig. 2 is another section on the line *y y*, Fig. 3. Fig. 3 is a plan view.

A and B represent the ventilating-furrows. A begins at the periphery and extends inward and backward nearly to the middle of the stone crossing; the section from one leading furrow D to another, B, is arranged about half-way between A and the eye of the stone in the same order. These furrows cause a

draft from the periphery in a backward direction, which materially assists in circulating air between the stones. E represents the herring-bone arrangement of the cracks in the outer portion of the face of the stone, and F the diagonal cracks in the inner portion of the face.

The herring-bone cracks are divided in the middle of the land by a slight furrow or deep crack, which affords a substantial cutting-edge.

The diagonal cracks are reversed in respect of their diagonal inclination in the adjoining lands.

The inner portion of the face is hollowed out, as in other cases, to gradually break the grain down into smaller particles as it works toward the periphery.

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

1. The ventilating-furrows traversing the lands from one leader to another, and curved as shown and described.

2. The inner parts F F of the lands, each having cracks inclined in an opposite direction from the next, as shown and described.

HARVEY T. ASHWORTH.

Witnesses:

I. B. CUSTER,
S. B. ASHWORTH.