

M. VANDEGRIFT.
Mill-Stone Dress.

No. 155,273.

Patented Sept. 22, 1874.

fig. 1

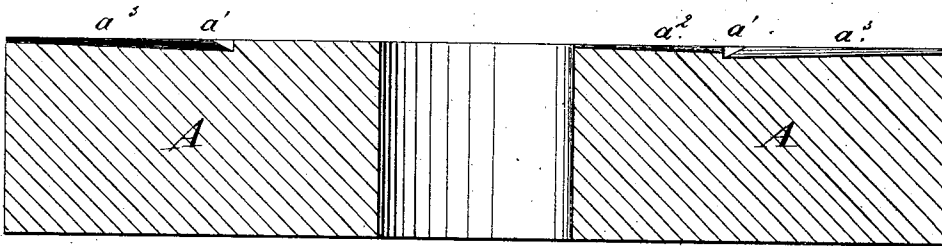
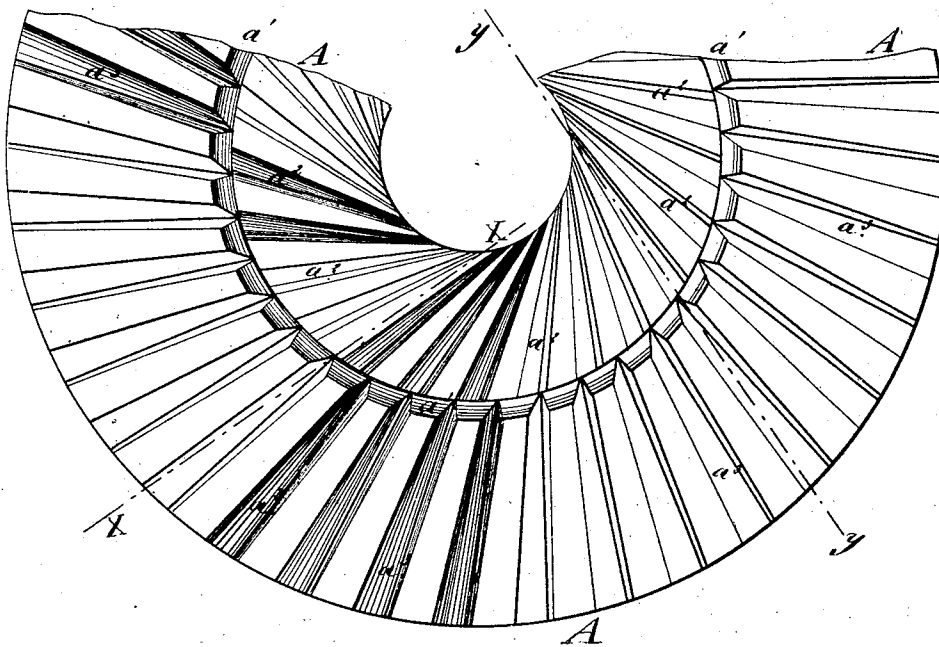


fig. 2



WITNESSES:

C. Newcomb.
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INVENTOR:

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BY

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UNITED STATES PATENT OFFICE.

MADISON VANDEGRIFT, OF CINCINNATI, OHIO.

IMPROVEMENT IN MILLSTONE-DRESS.

Specification forming part of Letters Patent No. **155,273**, dated September 22, 1874; application filed July 25, 1874.

To all whom it may concern:

Be it known that I, MADISON VANDEGRIFT, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Millstone-Dress, of which the following is a specification:

Figure 1 is a vertical section of a millstone, to which my improved dress has been applied, taken through the lines *xx* and *yy*, Fig. 2; and Fig. 2 is a top view of a portion of the same.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved millstone-dress, which shall produce a better ventilation, cause the stones to run cooler, and produce a greater quantity of first-grade flour than stones having the ordinary dress.

The invention consists in an improved millstone-dress, formed of a circle-furrow and two circles or sets of straight furrows, the inner or eye furrows being made with a greater draft or inclination than the outer or skirt furrows, as hereinafter fully described.

A represents a millstone, upon the face of which are formed one or more circular grooves, a^1 , feathered upon the outer or convex side. When only one circular groove, a^1 , is made, it should be at or near the circle of mean velocity of the stone. a^2 are the eye-furrows, which extend in a straight line from the eye of the stone to the circle-furrow a^1 , or to the first circle-furrow a^1 when more than one is used.

a^3 are the skirt-furrows, which extend from the edge or skirt of the stone A to the circle-furrow a^1 , or to the outer circle-furrow when more than one is used. The eye-furrows a^2 are made with a greater draft, or at a greater inclination or angle with the radiuses than the skirt-furrows a^3 , and the intermediate straight furrows, when more than one circle-furrow is used, should be at an intermediate draft or inclination. The circle-furrows a^1 act as receivers for the eye-furrows a^2 , and as distributors to the skirt-furrows a^3 , so that the dress greatly facilitates the passage of the chaps from the eye to the skirt of the stone, and at the same time greatly facilitates the ventilation.

It will be observed that there are a great many more skirt-furrows than there are eye-furrows, and that there are no short furrows in the dress.

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

An improved millstone-dress, formed of a circle-furrow and two circles or sets, a^2 a^3 , of straight furrows, the inner or eye furrows a^2 being made with a greater draft or inclination than the outer or skirt furrows a^3 , substantially as herein shown and described.

MADISON VANDEGRIFT.

Witnesses:

THOMAS J. WALKER,
WYATT HARRIS.