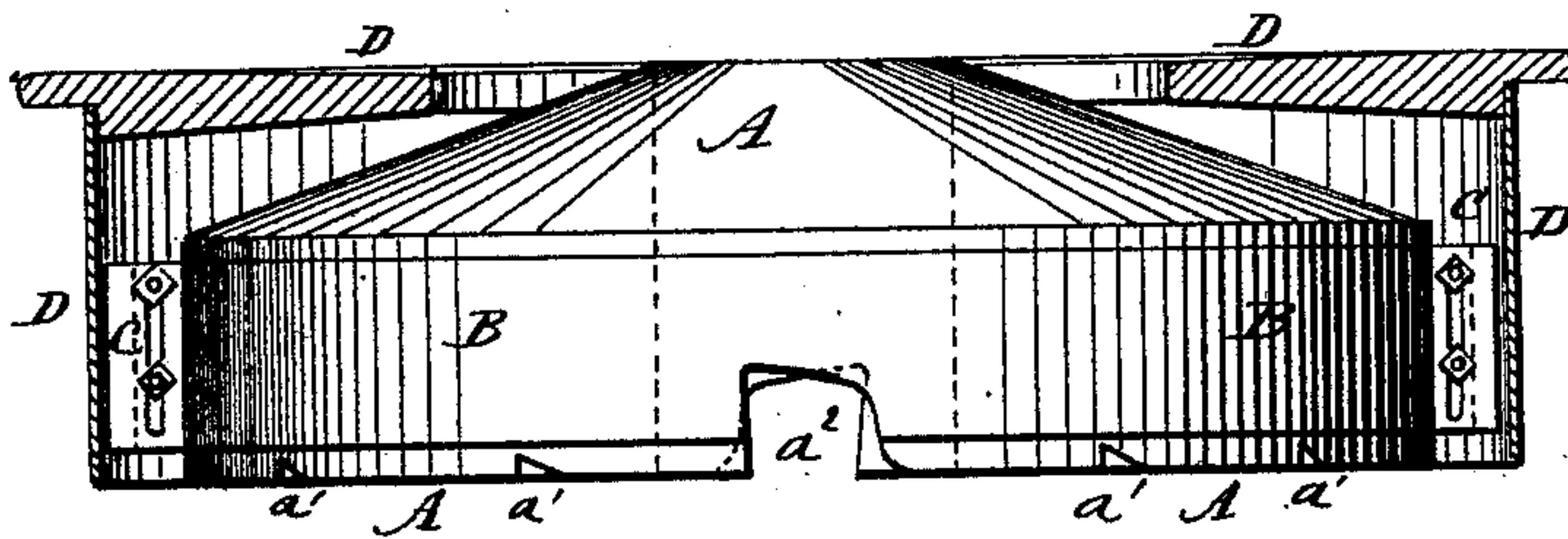


G. HELPERT.  
Ventilating Millstones.

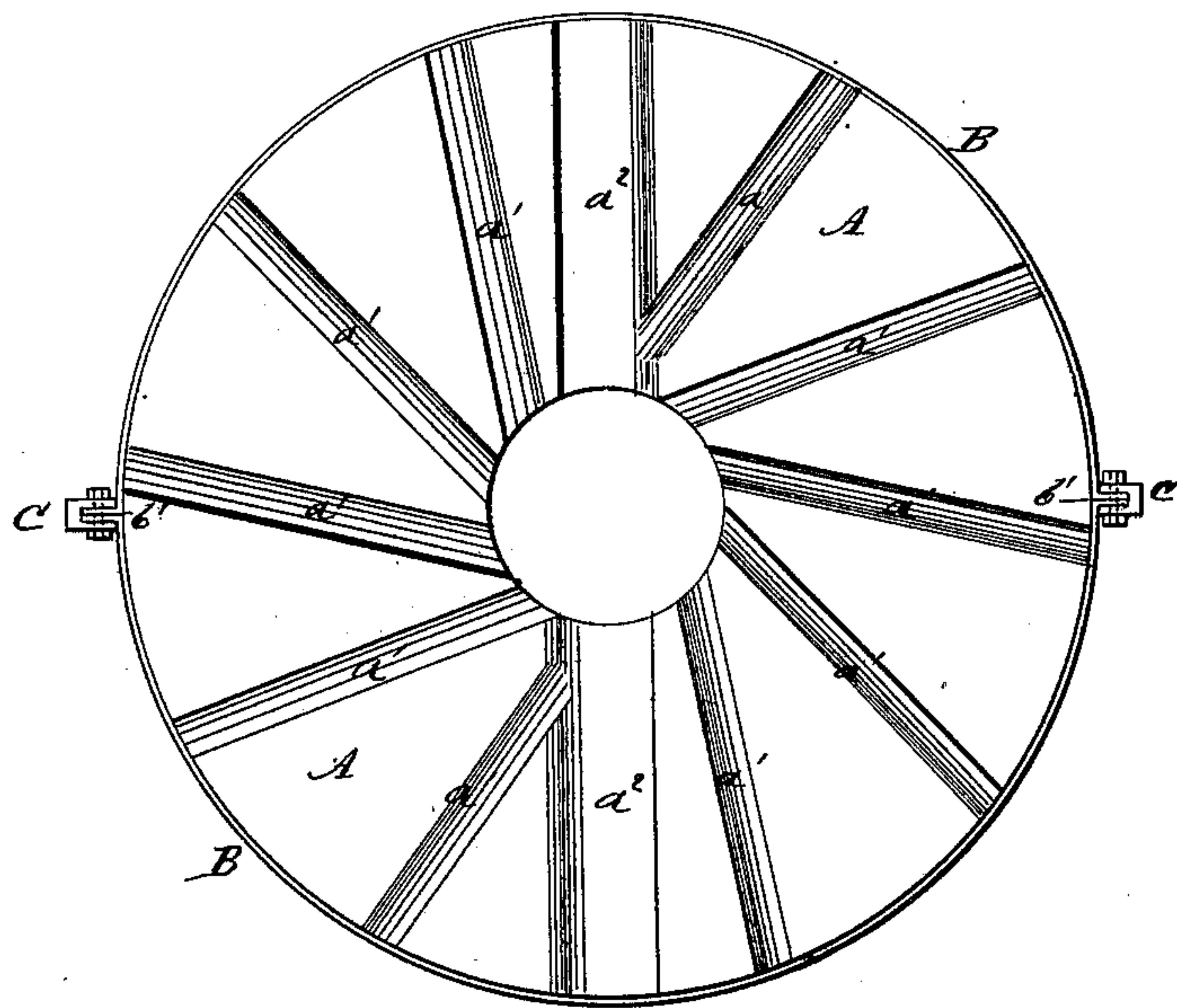
No. 213,900.

Patented April 1, 1879

*Fig. 1*



*Fig. 2*



WITNESSES:

*C. Nereux*  
*C. Sedgwick*

INVENTOR:

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# UNITED STATES PATENT OFFICE

GEORGE HELFERT, OF NEW YORK, N. Y.

## IMPROVEMENT IN VENTILATING MILLSTONES.

Specification forming part of Letters Patent No. **213,900**, dated April 1, 1879; application filed August 16, 1878.

*To all whom it may concern:*

Be it known that I, GEORGE HELFERT, of the city, county, and State of New York, have invented a new and Improved Millstone, of which the following is a specification:

Figure 1 is a side view of my improved millstone, the case or curb being shown in section. Fig. 2 is a face view of the stone.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish millstones which shall be so constructed as to cause a circulation of air between and around the stones, to keep them and the flour or meal cool, and prevent the flour or meal from becoming heated and being thus injured.

The invention will first be described in connection with the drawings, and then pointed out in the claim.

A represents the upper stone or runner, which is designed to be hung and revolved in the usual way. In the face of the stone A are formed grooves  $a^1$ , at an angle with the radial lines of the stone. The grooves  $a^1$  are beveled upon one side, and in a four-foot stone should be about half an inch deep, one and a half inch wide, and their ends at the circumference of the stone should be about six inches apart. Across the face of the stone A is formed a groove,  $a^2$ , about three and a half inches deep, three and a half inches wide, and beveled upon one side. The stone A is surrounded with a band, B, in the usual way. To lugs  $b'$ , formed upon or attached to the band

B at the opposite sides of the stone A, are attached fans C, which are slotted vertically to receive the bolts that secure them to the lugs  $b'$ , to enable them to be adjusted up or down, as desired. The lugs  $b'$  may be the outwardly-bent ends of the parts of the band B. The fans C should be set with their lower edges about one-eighth of an inch above the face of the stone A. The fans C should be as wide as the stone A, and should nearly fill the space between the edge of the said stone A and the case or curb D.

With this construction, as the stone A is revolved, the grooves  $a^2$  will induce a draft of air between the stones, which air will be distributed around the stones and its effect increased by the fans C, so that the stones, and consequently the flour or meal, will be kept cool, improving the quality of the flour, and preventing it from being injured.

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

The runner-stone B, provided with the ventilating-channel  $a^2$ , cut diametrically across the face, and having its bottom beveled upon opposite sides of the eye, away from the direction of rotation of the stone, substantially in the manner and for the purpose set forth.

GEORGE HELFERT.

Witnesses:

JAMES T. GRAHAM,  
C. SEDGWICK.