

Martin Cosgro Grinding Mill.

No 63,479.

Patented April 2, 1867.

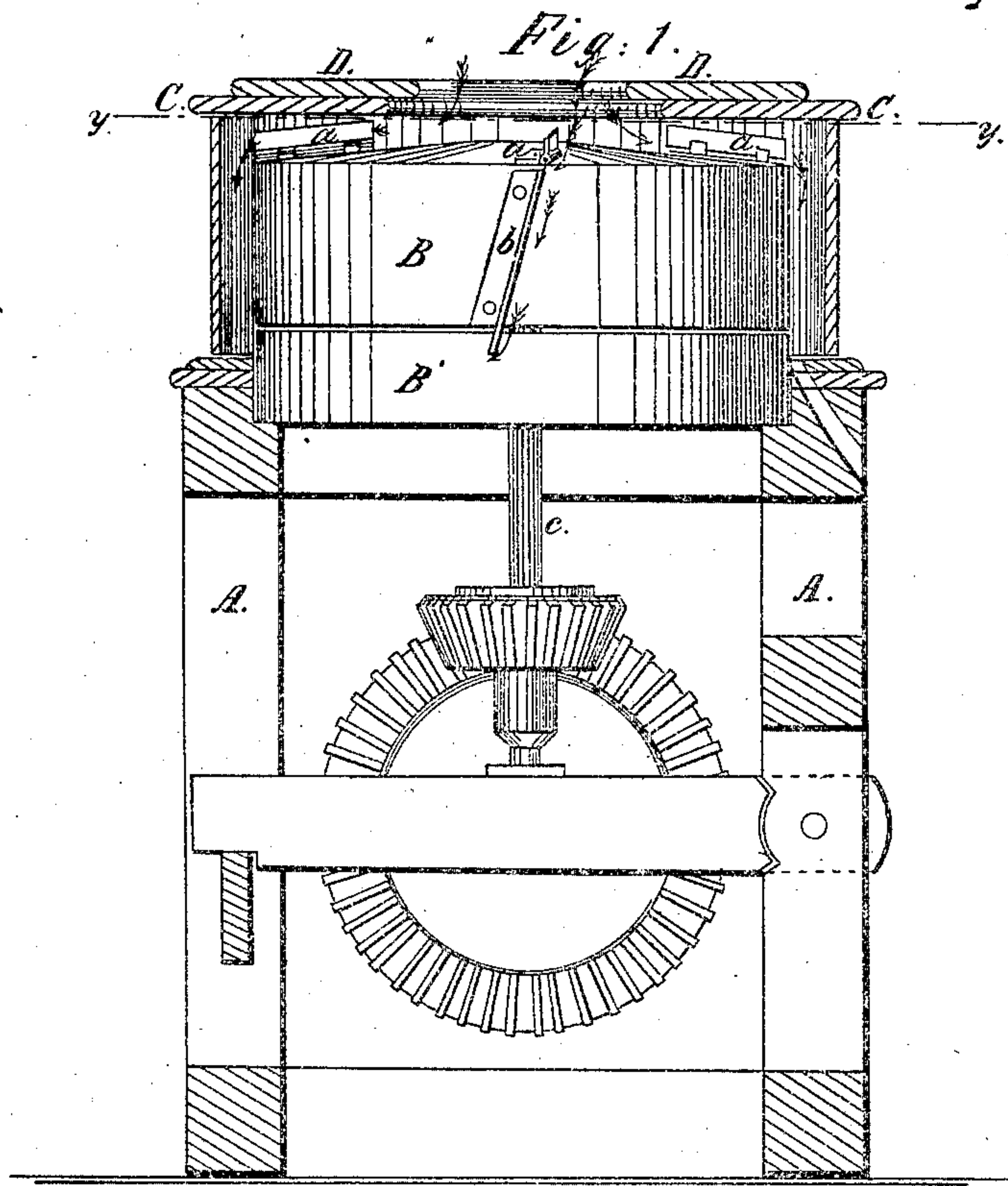


Fig. 2.

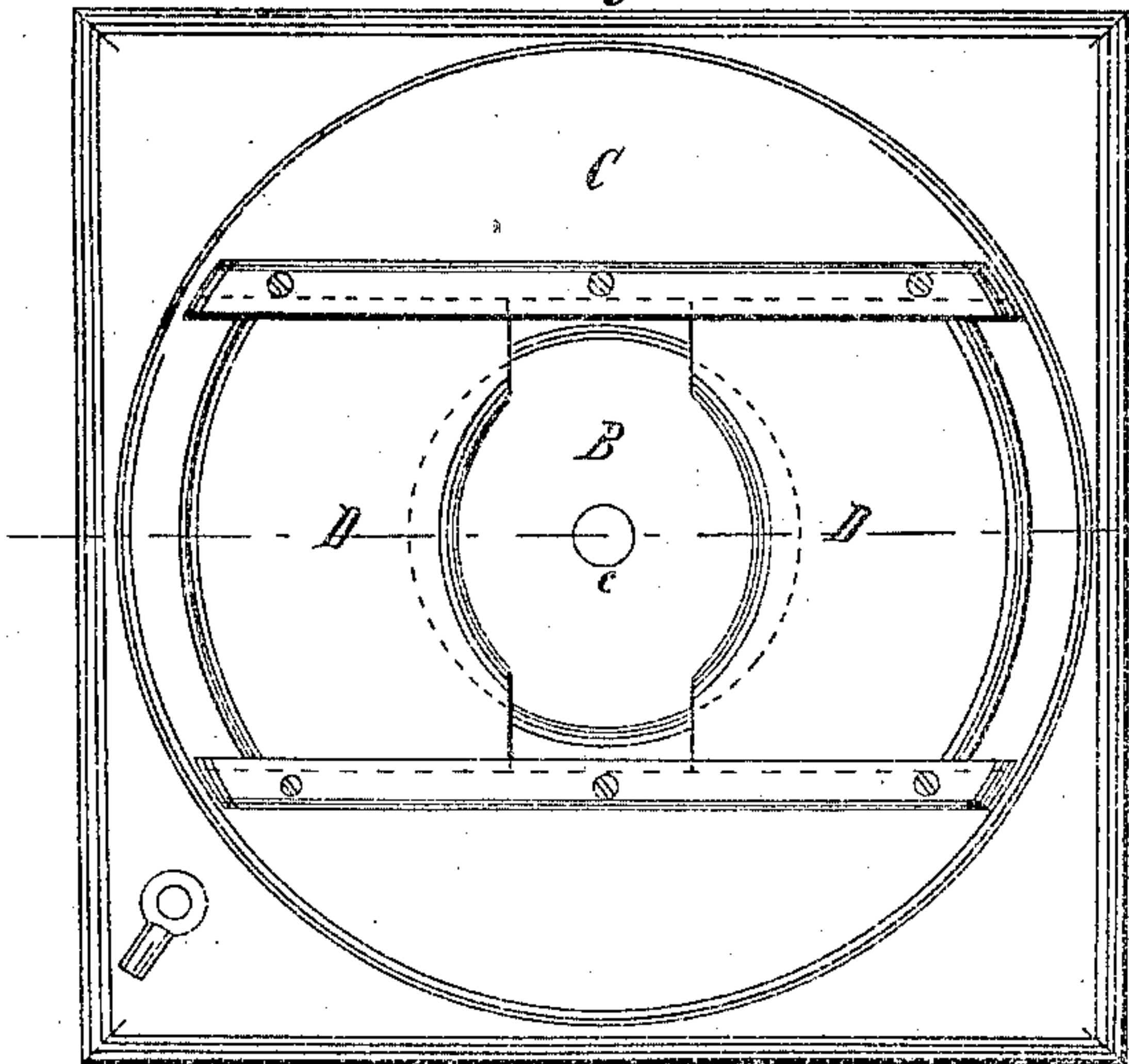
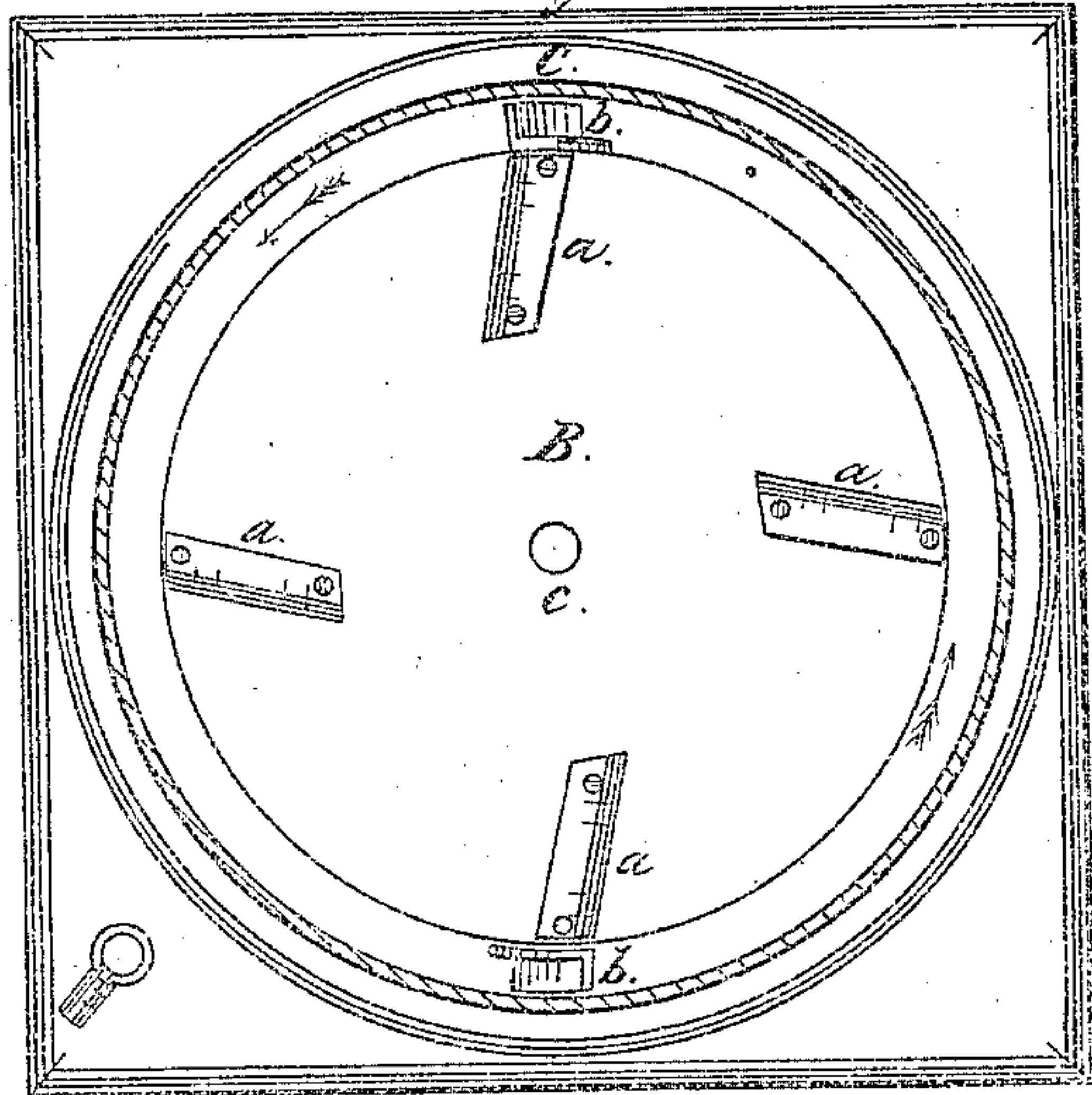


Fig. 3.



Witnesses,

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MARTIN COSGRO, OF PEORIA, ILLINOIS.

Letters Patent No. 63,479, dated April 2, 1867.

IMPROVEMENT IN GRINDING MILLS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, MARTIN COSGRO, of Peoria, in the county of Peoria, and State of Illinois, have invented a new and useful Improvement in Attachments to Millstones for Cooling the Meal, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a central vertical section of the curbing around a run of millstones, which are shown in side elevation with my improved refrigerating attachments, taken in the line *xx*, fig. 2.

Figure 2 is a plan or top view of a run of stones showing my improved slides over the curb for regulating the admission of air into the eye of the stones.

Figure 3 is a horizontal section taken in the plane of the line *yy*, fig. 1.

Similar letters of reference indicate like parts.

This invention relates to improvements in devices applied to millstones, for the purpose of cooling the meal, dissipating the moisture arising from the grain generally in grinding, and keeping the curb clean and dry. These devices consist in wings or fans attached to the top and side of the runner, in such manner that currents of fresh air are drawn and circulated within the curb, and directed upon and into the meal when it is discharged from between the millstones. The effect of this constant draught through the curb is also to prevent any accumulation of meal in the bottom to sour and spoil. In connection with these improved devices for creating a current of air, adjustable sliding doors are arranged in the top of the curb for regulating the quantity of cold air admitted.

A represents a frame supporting a run of stones, of which B is the runner, and B' the bed-stone, surrounded as usual by a curb, C. On the top of the runner is fastened a series of fans or wings, *a a*, hinged or stationary, which rise high enough to clear the inside of the curb, and extend from the periphery of the stone inwardly at an acute angle with the radii in the direction toward or abreast of the current of air produced by the motion of the stone, as indicated by the arrow in fig. 1, and shown in fig. 3. These fans are made of sheet metal or any suitable material. On the sides of the runner are fastened similar fans or wings, *b b*, the upper ends of which join the ends of the wings *a a*, and the lower ends of which set back from a perpendicular line, or recede from the current of air produced by the motion of the stone, as shown in fig. 1, and indicated by the arrows. The bed-stone B' projects a little way above the bottom of the curb C, and the fans *b b* extend below the faces of the stones so as just to clear the bottom. On the upper side of the curb C are placed slides, D D, on each side of the spindle *e*, the edges of which may be brought nearer together or further apart over the eye of the runner, and thus regulate the admission of more or less cold air as desired by the miller.

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

The millstones constructed with oblique top wings *a*, connected to oblique side wings *b*, and operating substantially as described for the purpose specified.

MARTIN COSGRO.

Witnesses:

GEO. H. REYNOLDS,

B. F. WELLES.