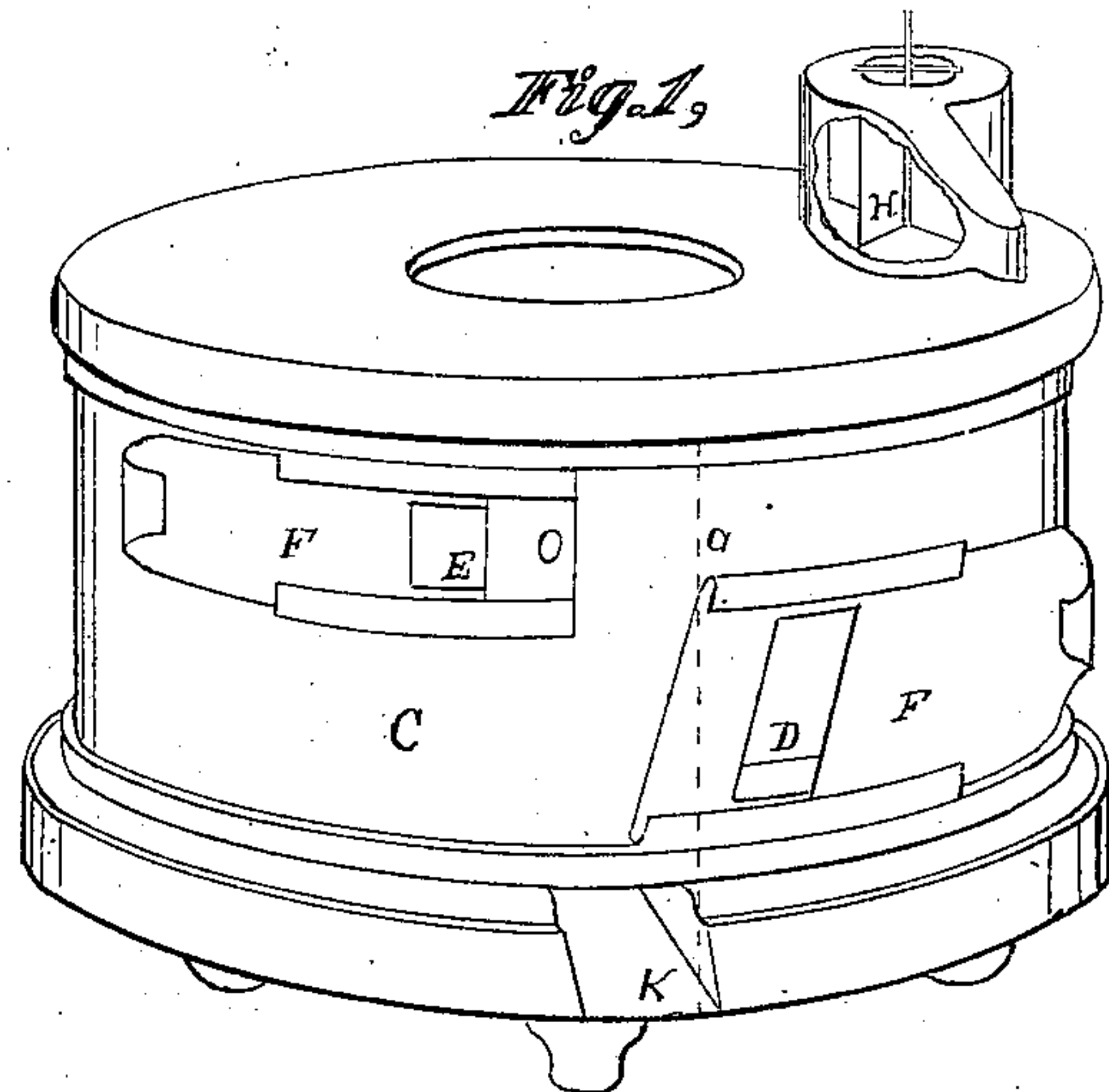
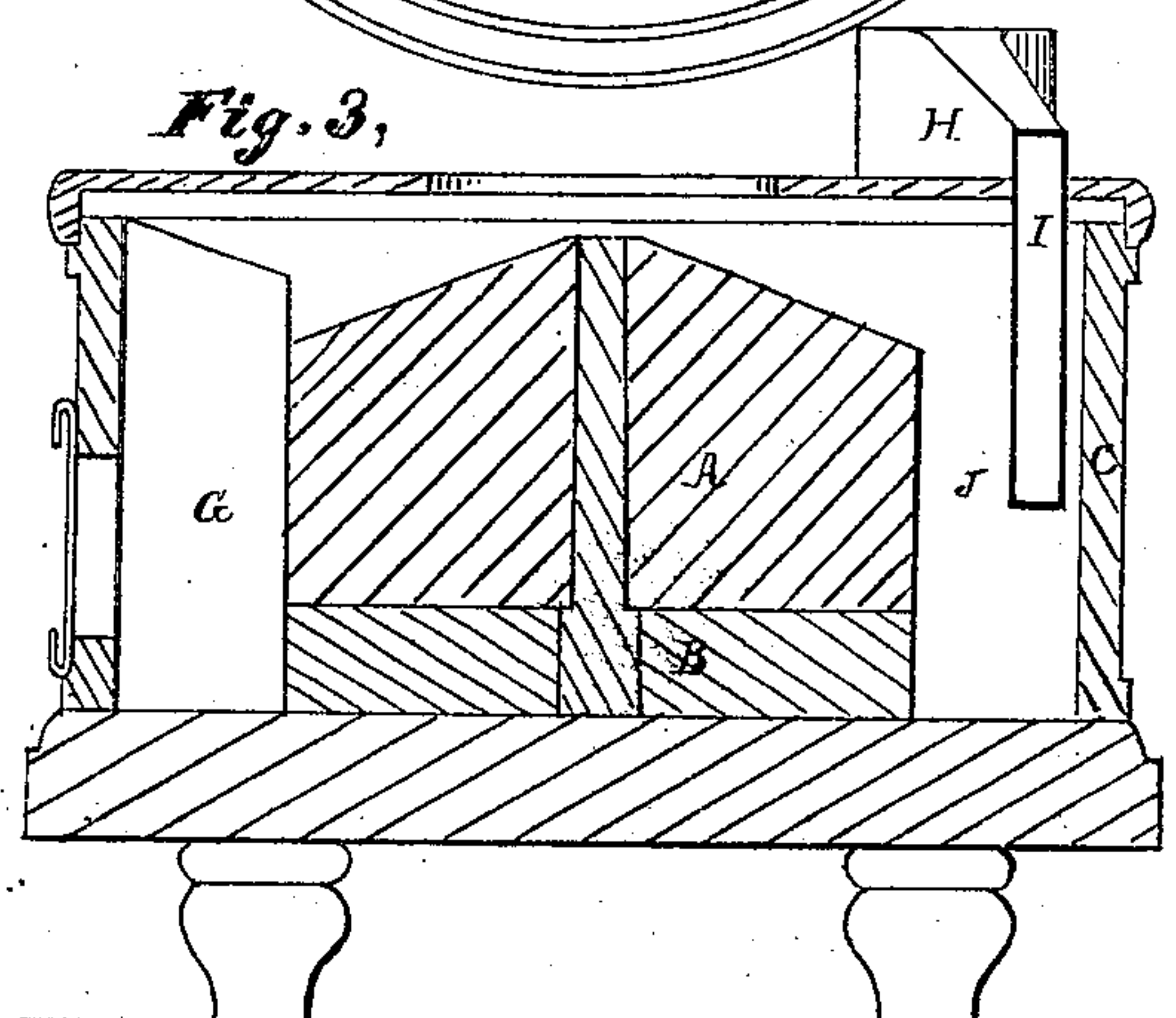
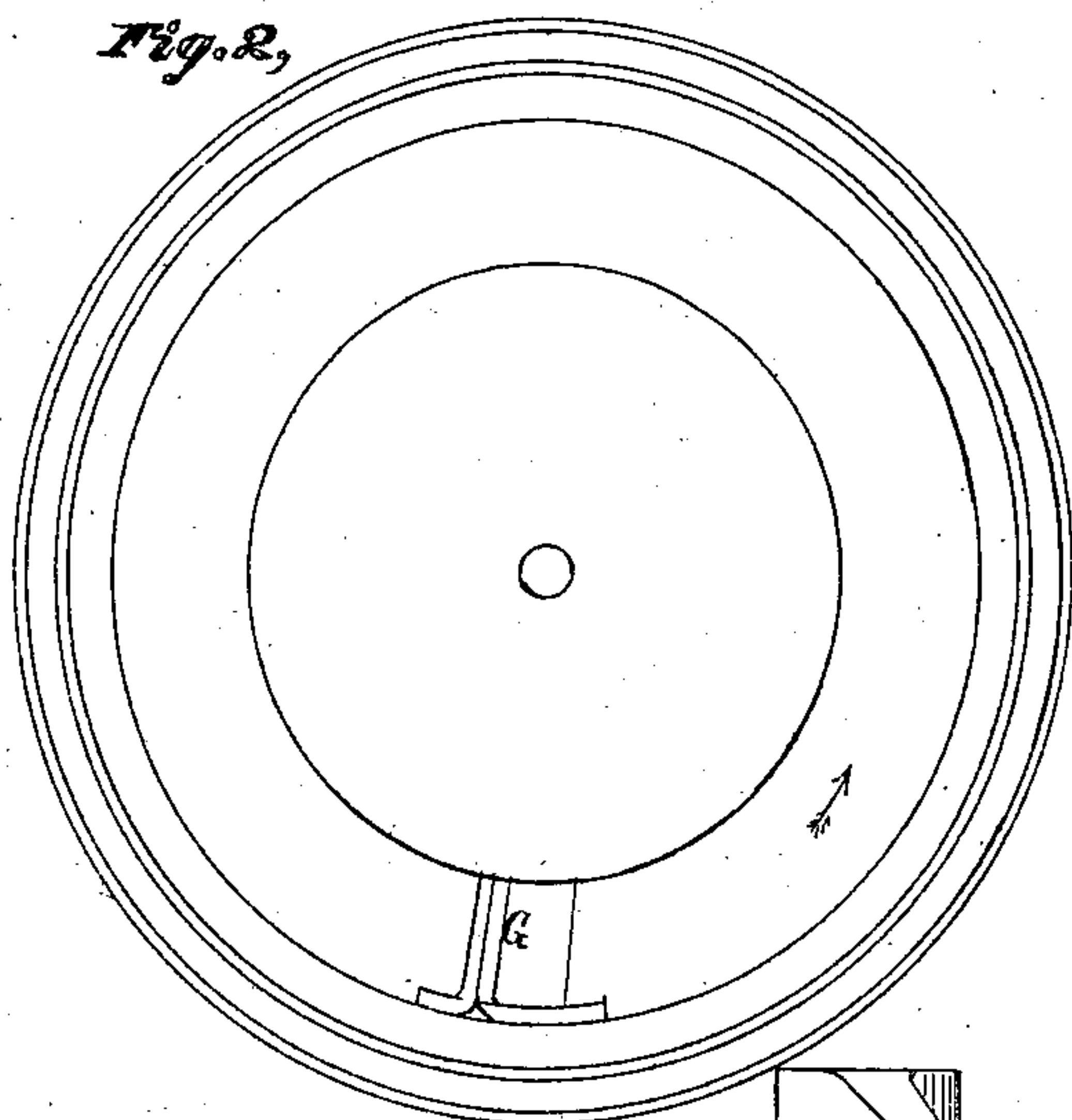


J. Mallin
Cooling Mill Stones & Co.
 72744



PATENTED
 DEC 31 1867



John Mallin

W. H. Brumby
Atty & Hood
Witnesses.

United States Patent Office.

JOHN MALLIN, OF BEDFORD, OHIO.

Letters Patent No. 72,744, dated December 31, 1867.

IMPROVEMENT IN COOLING MILLSTONES AND CURB.

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, JOHN MALLIN, of Bedford, in the county of Cuyahoga, and State of Ohio, have invented certain new and useful Improvements in Cooling Millstones and Curb; and I do hereby declare that the following is a full and complete description of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of the stone-curb.

Figure 2 is a top view with curb off.

Figure 3, a transverse section.

Like letters of reference refer to like parts in the different views presented.

The nature of this invention consists of an induction of a current of cold air into or between the periphery of the stone and curb, and thereby prevent the accumulation of moisture on the inside of the curb, denominated by millers as sweating, whereby the flour becomes wet and pasty, sticks to the curb, and obstructs the escaping of the flour, unless frequently cleared out, and which it also damages. In order to obviate this difficulty, the following device is adopted, viz:

In fig. 3, A B represent the millstones, enclosed in the curb C, all of which is or may be constructed and arranged in the ordinary way. In the side of the curb are cut ventilators or openings, D E, one near the bottom, and the other near the top. These openings are provided with a slide, F, whereby the size of the openings may be regulated for a purpose hereafter shown. G, fig. 2, is a diaphragm, placed between the curb and stone, in the position as shown in fig. 3. This leather is attached to the curb, and projects forward toward the stone, against which it slightly rubs, and, as will be observed, is placed between the two openings, as indicated by the dotted line *a*, fig. 1. H, fig. 1, is a fan-blower, I, the pipe of which is projected through the top of the curb, and descends into the space, J, between the stones and curb, as seen in fig. 3.

Having thus described the construction and arrangement of the device, the practical operation of the same is as follows: The stone, while in motion, induces a current of cold air through the opening D, which passes around the stone, and escapes from the curb through the opening E, which is on the opposite side of the leather G, and also escapes, along with the flour, from the opening K. In connection with the induction of this induced current of air is an impelled one by the fan H, and conducted into the curb by means of the pipe I, the said blower being driven by a belt from the damsel or after-run, as may be convenient.

By the induction of these two cold currents of air, the moisture arising from the flour is carried off, and, as a consequence, the temperature of the stone reduced, so that the flour is not liable to become heated and wet, as no sweat or moisture will be deposited on the sides of the curb, and thus cause a pasty condition of the flour, and a sticking of the same to the sides of the curb.

The strength or volume of the induced current of air admitted into the curb is regulated by the slides F, which may be more or less closed, as the nature of the case may demand; also, a valve being introduced into the pipe I, the impelled current from the fan can be regulated as may be required.

What I claim as my improvement, and desire to secure by Letters Patent, is—

The openings E D, diaphragm G, and fan H, all combined and arranged as and for the purpose set forth.

JOHN MALLIN.

Witnesses:

J. H. BURRIDGE,

E. E. WAITE.