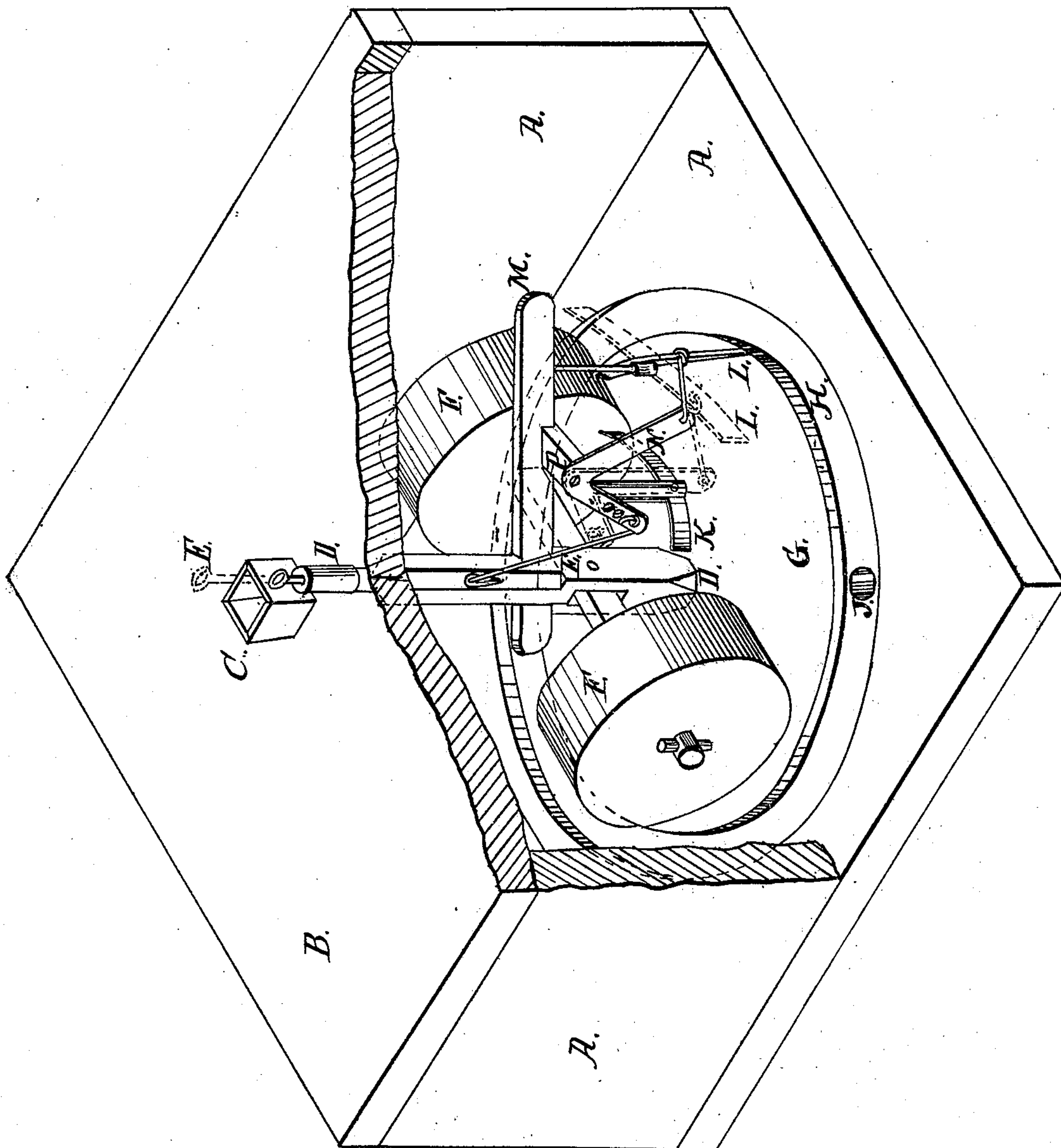


R. G. Chase.

Bark Mill.

Nº 85,726.

Patented Jan. 12, 1869.



Witnesses.
A. G. Clark
Godfrey Matheson

Inventor.
Remington S. Chase
By his Atty.
J. F. Raigart.



REMINGTON G. CHASE, OF ALEXANDRIA, VIRGINIA.

Letters Patent No. 85,726, dated January 12, 1869.

IMPROVED MILL FOR GRINDING SUMAC.

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, REMINGTON G. CHASE, of Alexandria, Alexandria county, and State of Virginia, have invented a new and useful "Improvement in Mills for Grinding Sumac," &c.; and I do hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the mode of adjusting the scraper on the outside of the grinding-chamber, and at the centre and inside of the bearing or shaft of the mill, by means of an angular arm, connected with the scraper and upright lever that extends up and through the upright shaft into a separate room or chamber, apart from the room or chamber in which the mill operates; and

The object is to prevent the operator from being brought in contact with the dust of the mill while in operation, the dust being very injurious to the lungs and eyes.

Another object is to enable the operator to adjust the scraper without stopping or delaying the grinding, and in nowise endangering the limbs or life of the operator, and saving much time and trouble heretofore required in stopping the engine or the grinding of the mill, as it was necessary heretofore to stop the mill every fifteen or twenty minutes, for the purpose of shifting the scraper so as to throw off the ground sumac outside of the grinding-floor to be discharged.

This improvement can also be attached to snuff and spice-mills.

A represents the apartment or close room containing the mill for grinding sumac, snuff, or spices, the drawing exhibiting a perspective view of the room and mill, with the one side open so as to show the operating-devices. Above this room A one, two, or more stories may be erected, to contain the dried sumac.

B represents the lower floor of an upper story, with the feed-pipe C, top of mill-shaft D, and the top of adjusting-lever E, extending above the upper side of floor B.

The dried sumac is passed through the feed-pipe C, and falls down, between the rollers F and centre-shaft D, to the mill-floor G, where it is finely ground by the rollers F, and scraped off into the grooved trough H, (surrounding the mill-floor,) from whence the ground sumac is discharged through a flight or lower pipe, J, after which it can be carried up by elevators and screened.

The centre scraper K passes the sumac under the rollers F.

The outside scraper L is adjustable, so as to keep the sumac on the floor G while being ground, and when adjusted at an angle from the circular edge of the floor G, it then throws off the ground sumac into the trough H.

This outside scraper L is suspended to an arm, M, projecting from the centre shaft D, and it is shifted and adjusted out or in (as shown by the red lines) by means of an angular arm, N, connected at one end of it with the upright lever E.

The centre of the angular arm is pivoted to a projecting brace at P, and the arm is operated by the lever E, that extends up and through the centre of the upright shaft D, so that the lever can be operated in the centre and on the outside of the room A, containing the mill, that the operator may raise and lower the lever E without going into the mill-room or stopping the mill.

I do not claim broadly the scraper L, as that has been used before; but

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

The arrangement herein described of the scraper L, suspended from the arm M, the angular arm N and lever E, the latter passing through the hollow shaft D into the upper room B, all operated as set forth.

R. G. CHASE

Witnesses:

J. FRANKLIN REIGART,
EDM. F. BROWN.