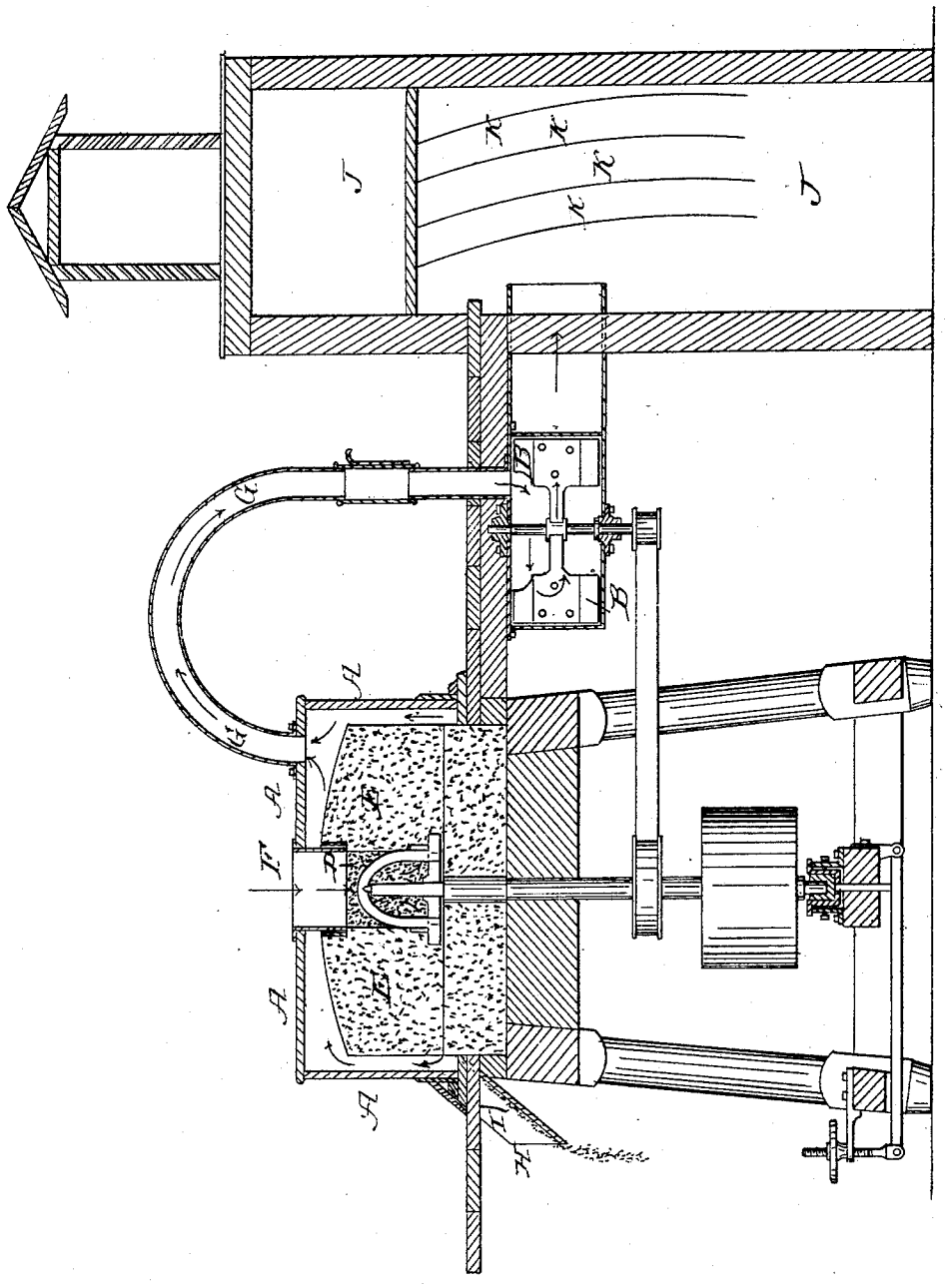
PLANT & RAITH.

Millstone Exhaust.

No. 30,498. Patented Oct. 23, 1860.



Witnesses
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UNITED STATES PATENT OFFICE.

GEO. P. PLANT AND JULIAS RAITH, OF ST. LOUIS, MISSOURI.

VENTILATING MILLSTONES.

Specification of Letters Patent No. 30,498, dated October 23, 1860.

To all whom it may concern:

Be it known that we, GEO. P. PLANT and JULIAS RAITH, of the city of St. Louis, in the State of Missouri, have invented a new and useful Improvement in Grinding-Mills; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

In carrying out our invention we inclose the stone in an air-tight curb A, and by the means of an exhausting fan B, attached thereto by pipe C, we produce within said curb, a partial vacuum, in which the stone revolves, and discharges the ground material, and the eye D of the stone being open, a current of air is thus drawn down it, and through the furrows, as represented by the arrows in the drawing.

The connection between curb A, and eye D, of stone E, is made by tube F, which is attached to curb A, and runs down into the eye D, and is surrounded by any soft material, thus forming an air-tight packing.

To prevent the air from entering by the discharge spout H, we use a valve made of any pliable material, in the shape of a bag or clapper I, which is forced open by the gravity of the ground material.

The suction-fan B can be situated in any convenient place, and connected by the pipe C to the curb A.

We discharge the dust drawn by the fan from the ground material into a settling-room J, which we construct of cloth, which will allow the air to ooze through leaving the particles of dust adhering to the inside. We also have curtains K, K, K, against which the air strikes and thus intercepting the particles of dust.

What we claim as our invention, and desire to secure by Letters Patent, is—

The arrangement together as herein shown and described of the sucking and drawing fan B, settling room J, hung with cloths K, dust tube C, curb A, tube F, stone E, spout H, and clapper I, so that a current of air will be drawn down the eye of the stone through the furrows to ventilate the stone, and so that the dust will at the same time be drawn up away from the stones and driven into the settling room J, where it will be received by the cloths K, all as set forth.

GEO. P. PLANT.
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Witnesses:
SAML. B. WIGGINS,
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