

To the honorable Henry L. Ellsworth, Commissioner of Patents, for the United States of America, the petition of Jonathan Morgan of Portland, in the County of Cumberland & State of Maine respectfully represents that your Petitioner has invented a new & useful method of grinding wheat, or any other kind of grain, or corn & making the same into meal, & separating the flour or meal from the bran, which he verily believes is the most known, nor used, prior to the invention thereof, by your petitioner. He therefore prays that letters patent of the United States may be granted to him therefor, vesting in him & his legal representatives, the exclusive right to the same, upon the terms & conditions expressed in the acts of congress, in that case made & provided, he having paid thirty dollars into the treasury of the United States & complied with the other provisions of the said acts.

Jonathan Morgan.

To all, whom it may concern: Be it known that I, Jonathan Morgan of Portland, in the County of Cumberland & State of Maine, have invented a new & useful method of grinding wheat, or any other kind of grain, or corn & making the same into meal, & separating the flour or meal from the bran, & I do hereby declare the following specifications to be a full, clear & exact description thereof:

1. I take two, or more metal rollers turned true & smooth, & set them in frame close together, & so set that they can be set up & off with screws, as convenience may require. These rollers are geared together at one end so that one turns the other. The gear on one is larger than on the other, whereby one is turned faster than the other, so as to produce a rubbing motion between the two. The operation of these rollers is this, they crush the grain to any fineness, as it passes through between them, which flattens the hull down squeezing out the flour, & the rubbing motion of the rollers brakes the hull or bran into large flakes, & still small enough so that the meal can all be shaken loose from it in the whipper.
2. The hopper is set directly over these rollers, or crushers, & they feed themselves; & carry through the crushed grain, according to the capacity of the opening between the rollers.
3. The whipper, or that part of the mill which wholly separates the meal or flour from the bran is made of two cyl-

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Date: 1838
Description: Jonathan Morgan application for patent

inders, one within the other of any proper dimensions, say two fist diameter & three fist high standing perpendicular, having a space between the inner & outer cylinder of about one inch. The outer cylinder is stationary, & the inner cylinder revolves, at any given & necessary speed. These two cylinders are set sufficiently full of rows of teeth, or pins, with a proper scapment endwise & side wise, so as not to strike against each other, in revolving. The object & use of the operation of these pins is, by the motion of the inner cylinder, its pins passing between the pins of the outer, or standing cylinder, to whip & shake the bran, so as to separate all the meal from the bran. The effect of flouring, in this way, instead of grinding, with stones, as is now used, will be this: The grain being crushed, as above, the bran is not cut up, but left in large flakes, whereby the flour is easily separated from it intirly, fetching all the flour out, in one super fine quality & intirly free from specks of fine, ground bran, which injures & deteriorates so great a part of the flour. The outer cylinder may have sieves in it lengthwise to let the flour separate from the bran, or not, as shall be found convenient in practice. Or this separation may all take place by sieve, or bould, after passing through the whipper, as is now done.

4. I suppose a sieve of fine wire, of proper length & breadth, would probably be sufficient for separating the bran & flour, after passing through the whipper.

5. What I claim, in & by these specifications, I wish to secure by the patent to be issued thereon is the use & application of the rollers for crushing the grain & the whipper, for shaking & beating the flour or meal from the bran.

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 In testimony that the foregoing specifications are a full & exact
 description of my invention & improvement, as above described
 and explained, I have hereunto set my hand & seal, this
 day of a.d. 1838 at Portland.
 In presence of Jonathan Morgan

Cumberland County, State of Maine SS: On this
 day of a.d. 1838, before me the subscriber, a Justice
 of the peace, in & for said County, personally appeared, the
 abovesigned Jonathan Morgan & made solemn oath
 that he verily believes himself to be the first & original
 inventor of his said method of crushing & flouring grain
 & separating the meal & bran, as is above described & claimed,
 & that he does not know, nor believe that the same was
 ever before known, nor used; that he is a citizen of the
 United States of America.

Justice of
 the Peace.

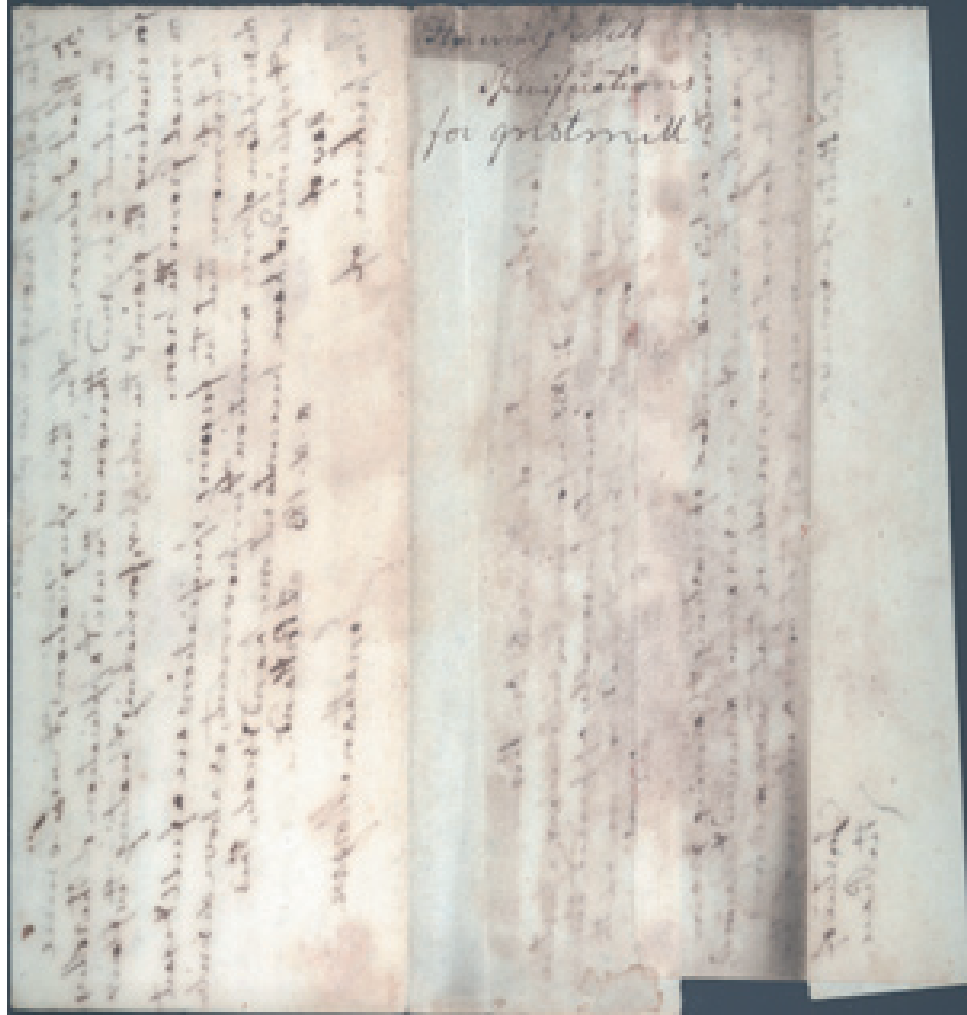
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Flouring Mill
Specifications
for grist mill