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Date: 1838

Description: Jonathan Morgan application for patent

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, many other into

kind of grain, or corn & making the same it ^ meal & seperating the flour or meal from the bran, which he verily believes hath not been 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, & seperating the meal or flour 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 oth er, whereby one is turned faster than the other, so as to produce a rubing motion between the two. The operation of these rollers is this, they crush the grain to any fineness, as it passes throug between them, which flattens the hull down squeazing out the flour, & the rubing motion of the rollers brakes the hull or bran into large flackes, & still small enough so that the meal can all be shaken loos 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-

enders, one within the other of array propor disrections, Lang having a strace last ever the most first trading performationless, bout one inches The outer cyl be is stationary, the inex exlinder workers, at any given & newsoury speeds There tues explined are set sufficiently full of yours of teeth, or pois, Saile against each other, in revolving. The digit Fure of The sportion of these pind is lay the you toon o explinates, its pears paping ortionen the point of the order, or Standing explinder, to whip thake the bran, so as to whe arate all the weal from the brave The effect of flowing in this way, intend of grinding, with atomit, as is now will be this: The grain bring our had, as above, the bra not cut up, but left in eagle glades, whereby the flowers early experated from it intiles, fetching all the flower out, in one superfine quality & intily ful from ground brain, which injured & deteriorates so great apart of the How with outer extende may have sieves in it long therise to het the flow represents from the bran, or not, as shall be gound convenient in practice. Is this reparation , very all take dare by sieve, or boutt, after paying through the whifeper, 4. I suppose a viewe of fine wine, of propor length of breakter would probably be sufficient for repairing trabase of flower, after passing through the whip por. 5. What I dairn, in they there purifications; twish to rune by the patent to be great thereon is the west application of therether for exercising the frain't the whipper, for whating the flower or much from the brane.

inders one within the other of any proper dimentions, say two fist diameter & three fist high standing perpendicular, having a space between the iner & outer cylinder of about one inch. The outer cylinder is stationary, & the iner 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 eachother, in revolving. The object & use of the operation of these pins is, by the motion of the iner 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 and 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 boult, 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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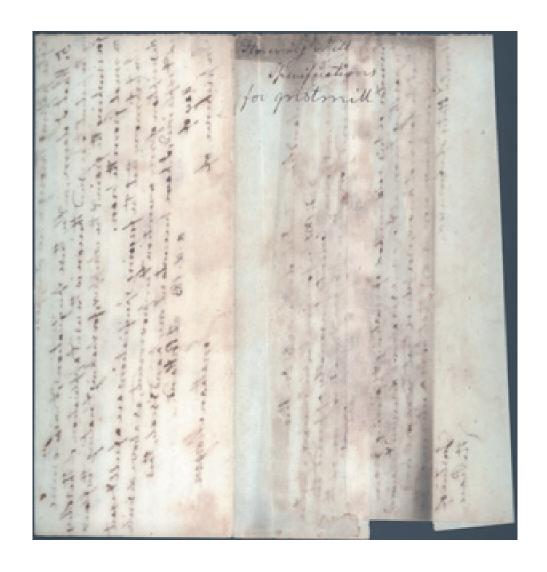
In testimony that the forgoing specifications are a full & and exact description of my invention & improvement, as above described & explained, I have hereunto set my hand and seal this

day of a.d. 183 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 abovnamed Jonathan Morgan, & made solemn oath that he verily believes himself to be the first & original inventor of his said method of crushing and & 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.



Flouring Mill Specifications for grist mill