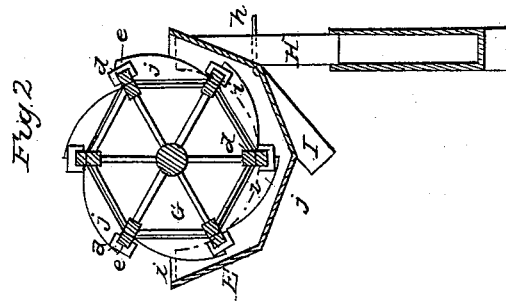
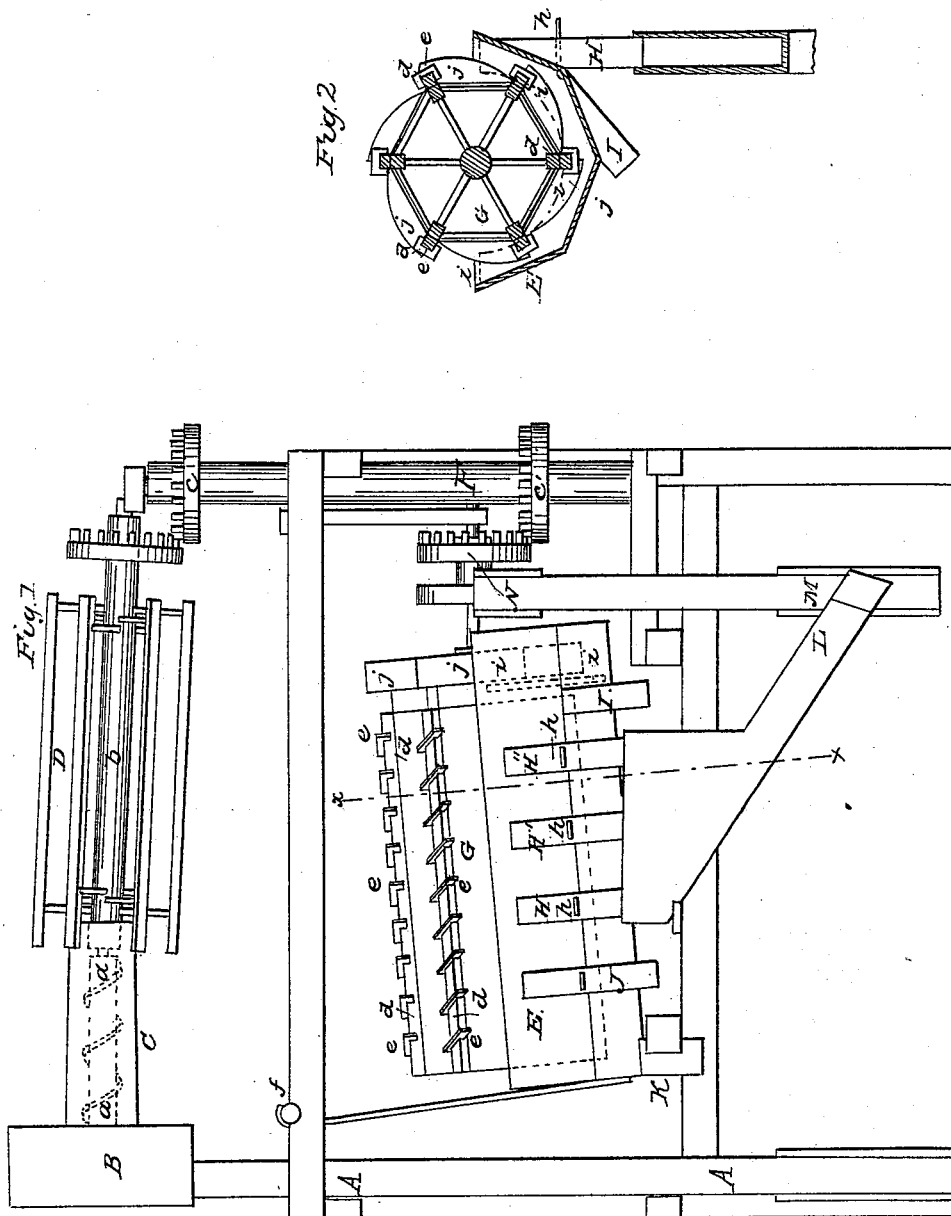


R. MAUCK.

Mill Bolt.

No. 4,329.

Patented Dec. 26, 1845.



UNITED STATES PATENT OFFICE.

ROBERT C. MAUCK, OF HONEYVILLE P. O., VIRGINIA.

IMPROVEMENT IN MACHINERY FOR BOLTING FLOUR.

Specification forming part of Letters Patent No. 4,329, dated December 26, 1845.

To all whom it may concern:

Be it known that I, ROBERT C. MAUCK, of Honeyville P. O., in the county of Page and State of Virginia, have made a new and useful Improvement in Flouring-Mills; and I do hereby declare that the following is a full and exact description thereof.

My principal improvement consists in the manner in which I arrange the apparatus concerned in the process of bolting, so as to regulate with perfect facility the separation of the superfine from the other portions of the meal.

In the accompanying drawings, Figure 1 is a side view of a part of the mill, and Fig. 2 is section of the bolting-chest in the line *xx* of Fig. 1. In each of these figures where the same parts occur they are designated by the same letters of reference.

A A are the trunks that contain the elevators which raise the grain from any vessel or compartment containing it to the chest B, from which it passes along the trough C to the revolving cleaning-screen D, whence it passes to the burr-stones, as usual. In the trough C, I place a conveyer (shown by the dotted lines *a a*) which supplies it to the screen with much greater regularity than can be done by the trough ordinarily employed. The conveyer is coupled to the shaft *b* of the revolving screen, so as to allow the necessary play.

E is the meal or bolting chest, the upper part of which is removed to show the bolting-reel with its flights, to be presently described.

F is a vertical shaft carrying the two wallowers or wheels *c c'*, by means of which motion is communicated to the whole apparatus concerned in the screening of the grain, and in the bolting with fewer moving parts than in any of the mills with which I am acquainted. To this arrangement, though new, I do not make any claim.

G is the bolting-reel, on the outside of which I place six or any other preferred number of strips *d d*, which are to carry flights *ee*, placed obliquely upon them, so that they may draw the meal from any part of the bolting-chest toward its upper end.

H H' H'' are spouts that receive that portion of the flour from the bolting-chest that is to be carried again to the bolting-reel, and

I is the spout through which the superfine flour is to be carried to the packing-apartment. This last spout I place much nearer to the head of the chest than usual, the arrangement of the other parts admitting of my so doing. The dotted lines *i i*, Fig. 1, and the red lines, Fig. 2, represent a partition between the spout I and the scoops *j j*, by which the meal to be bolted is carried into the bolting-reel.

J is the spout for receiving the middlings, of which there may be two or more for separating the qualities, if preferred.

K is the spout for the bran or tailings. The gudgeons of the bolting-reel are made to rest upon the ends of the meal-chest, and the inclination of the chest and reel can therefore be altered by turning a roller *f* and winding or unwinding a strap *g* attached to the meal-chest. This elevating or depressing may of course be effected by means of a screw, a wedge, or otherwise. To allow of this elevation and depression, the shaft of the wallower or wheel N is coupled to the shaft of the bolting-reel in such manner as to allow them to revolve freely in their varying positions.

The spouts H H' are each furnished with a shutter *h*, by which it may be closed and if that marked H'' be so closed the flour which would have passed down it will be carried to the superfine-spout I, and if H' be also closed the flour which would have passed through it will in like manner be carried to the spout I. Each of the spouts H conducts the flour to the spout L, to be again elevated and rebolted, there being elevators for that purpose in the trunk M, operating in a manner well understood by millers.

It will readily be seen by those conversant with the ordinary mode of constructing flouring-mills that the bolting apparatus as arranged by me will afford a much greater facility in separating the superfine flour from the middlings than has heretofore been attempted. Whatever may be the variation in the weather or in the nature of the flour, the bolting can be instantaneously adapted thereto, as the bolted flour can, by closing the desired number of the spouts H, be carried back to be rebolted at pleasure. I have represented three spouts H leading into the spout L; but there may be four or more.

Having thus fully described the nature of my improvements in flouring-mills, what I claim therein as new, and desire to secure by Letters Patent, is—

The manner in which I have arranged the flights *e e* around the bolting-reel, in combination with the arrangement of the respective

spouts H H and I, and with a device for altering the inclination of the bolting chest and reel, for the purpose set forth.

R. C. MAUCK.

Witnesses:

THOS. P. JONES,

EDWIN L. BRUNDAGE.