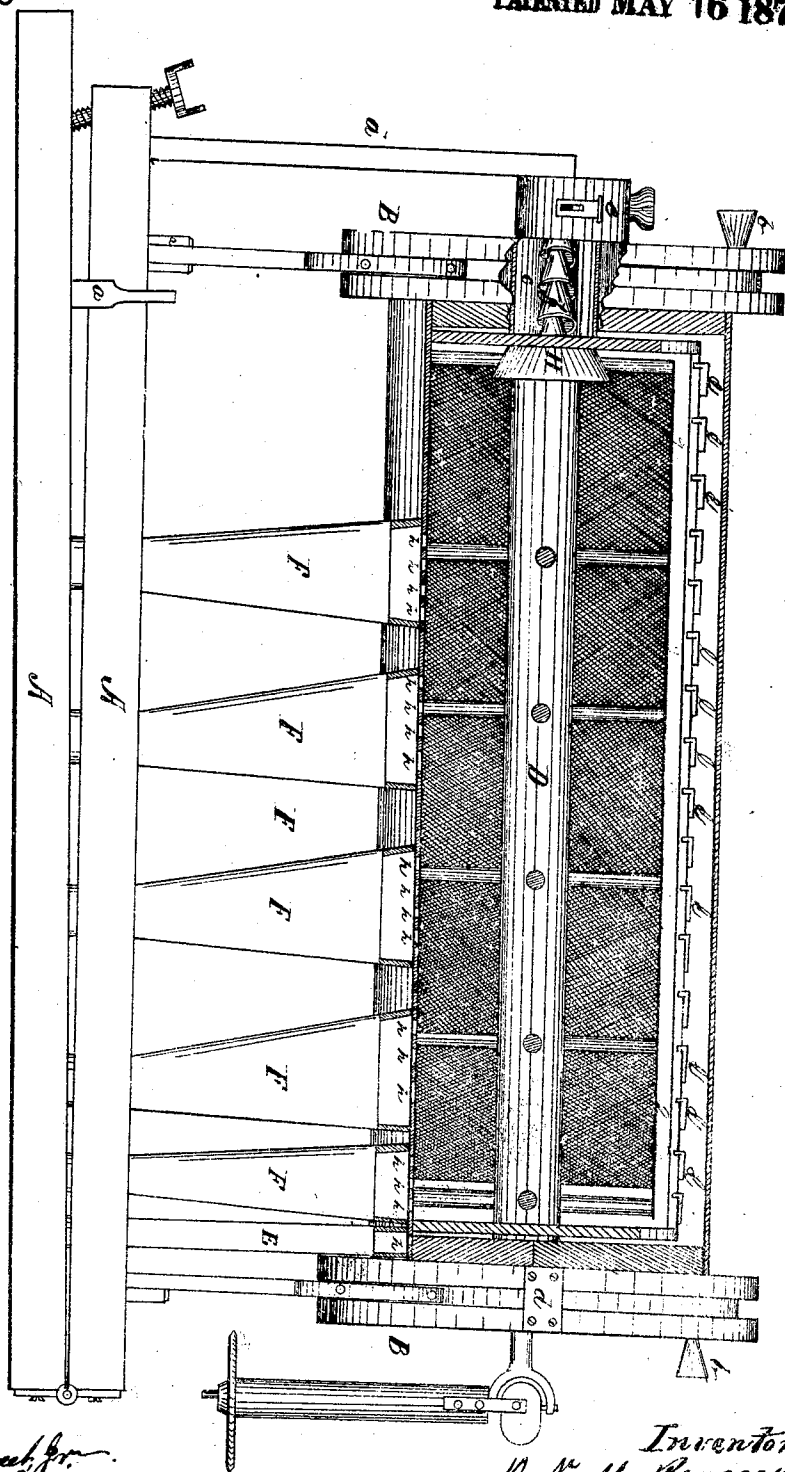


DABNEY N.M. PEREGOV
IMPROVED FLOUR BOLT.

114966

PATENTED MAY 16 1871



Witnesses:
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UNITED STATES PATENT OFFICE.

DABNEY N. M. PEREGOY, OF ELIZABETHTOWN, TENNESSEE.

IMPROVEMENT IN FLOUR-BOLTS.

Specification forming part of Letters Patent No. **114,966**, dated May 16, 1871.

To all whom it may concern:

Be it known that I, DABNEY N. M. PEREGOY, of Elizabethtown, in the county of Carter and State of Tennessee, have invented a new and useful Improvement in Flour-Bolts, &c.; and I do hereby declare the following to be a full and exact description thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand and use the same, reference being had to the accompanying drawing, in which—

Figure 1 is a partial vertical section, and Fig. 2 is a detached top view of the same.

My invention relates to an improvement in machinery for bolting flour; and consists in arranging the bolt and concave on suitable standards, which are secured to a hinged and adjustable frame or table, said table serving to regulate the degree of fineness of the flour, inasmuch as the flour will be carried to the chutes having small or large openings, as may be desired; also, of the combination and relative arrangement of certain parts, as will hereinafter more fully be set forth.

Referring to the drawing, the letter A may represent the hinged table, having an opening or openings made therein, through which the neck of the chute or chutes passes. The table is composed of two parts hinged together at one end and shutting over one another. The top leaf is provided with an adjusting thumb-screw, and, as the said leaf is raised and lowered, it is kept in place by guide-posts on the lower leaf.

a a are standards upon the upper leaf, upon which rest and are secured the heads B B of the cylinder C. This cylinder is made of sheet metal, wood, or other material, and is provided with two heads, B B, preferably of wood, the upper half of each of said heads being removable, and are provided with air-tubes *b b*, leading to the interior of the cylinder, and by which the supply of air to the cylinder or concave is regulated, a suitable plug or cut-off being used therein. The upper half of the cylinder is also hinged, and can be thrown back so as to expose the interior. The centers of the heads B B form bearings for the journals of a flour-bolt, D. In one head a tube, *c*, is secured, and extends from within the bolt to a standard, *d*, secured in the upper leaf of the

table. This tube is covered in part by the head of the cylinder, but has, outside thereof, a semi-cylindrical hinged lid, *e*, with a funnel inserted in it, through which the flour to be bolted is conveyed to the tube, and thence by a screw, *f*, into the bolt.

This bolt is of the usual construction, except in the following particulars: A cone-shaped shell or deflector, H, surrounds the longitudinal shaft, and is secured upon the inside of the head of the reel and revolves with the same. By the arrangement of the same, particles or specks of bran, and so forth, are prevented from escaping into the space between the heads of the cylinder and the reel, and injuring the quality of the flour.

The bar forming the journals for the bolt extends all the way through the bolt, and has the breaking-arms attached to it. One end is formed into the screw *f*, which conveys the flour to the bolt through the tube *c*. The screw extends thence and forms a journal having its bearings in the standard *d*.

Extending longitudinally from head to head of the bolt is a number of rods, *g g*, to which and to one head of the bolt is secured, obliquely, a number of breakers, *l*, which, as the bolt is rotated, scatter the flour and help to distribute it over openings *h* made in the bottom of the cylinder. The cloth covering the bolt-frame does not fully cover the same, but a space is left open through which the bran escapes, and in escaping it falls through an opening in the bottom of the cylinder into a tube, E, arranged underneath to convey it to any desired place. The supply through this opening is regulated by a key or slide, *i*, which, passing through the tube on the outside, covers over the said opening. The openings *h* admit the bolted flour into one or a number of chutes, F, also arranged underneath or at the side of the cylinder, and they convey the flour to any desired place—as, for instance, to the barrels to be filled. The supply to these is also regulated by keys, which cover them in the same manner as that in the bran-tube. These chutes may be arranged straight or slanting from the side or bottom of the cylinder, as may be found desirable.

Motion is applied to the bolt by means of a shaft connected therewith by a universal joint

or otherwise, and having a beveled or other gear engaging with the wheels on the vertical shaft.

As will be seen, by covering the bolt in my manner, and in supplying the flour thereto, there is no waste, the work is greatly expedited, and the openings *h* in the bottom of the cylinder are so arranged as to size that the different qualities of flour can be had by simply removing the keys from the openings that it is desired to send the flour through.

In large mills it may be necessary to use more than one bolting apparatus, and if so they may be arranged one above the other on different floors of the building, and one or more of the chutes or tubes may lead hence to the funnel in the supply-tube of the lower apparatus; and by this arrangement the upper bolt will give the finer grades of flour, and the lower separates the coarser grades or qualities.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The arrangement of the guard or shell *H* upon the head of the bolt-reel, herein described, with the breakers *l l* on the strips *g g*, combined and operating in connection with the tube *c*, screw *f*, cylinder *C*, and chutes *F F*, with or without the bran-tube *E*, substantially as set forth.

2. The closed concave cylinder or hopper *C*, arranged on standards *a*, in combination with an adjustable hinged table, *A*, when the same is constructed and operates in the manner and for the purpose set forth.

3. The combination of the adjustable hinged table *A*, concave or cylinder *C*, bolt *D*, screw *f*, tube *c*, chute or chutes *F*, openings *h*, and keys, when operating together in the manner and for the purpose specified.

To the above specification I have signed my name this 11th day of April, A. D. 1871.

DABNEY N. M. PEREGOY.

Witnesses:

HENDERSON ROBERTS,
LORENZO D. POTEET.