(No Model.)

F. MELKERSMAN.

WASHER AND SEPARATOR FOR HOMINY, &c.

No. 265,619. Patented Oct. 10, 1882.

Fig 2.

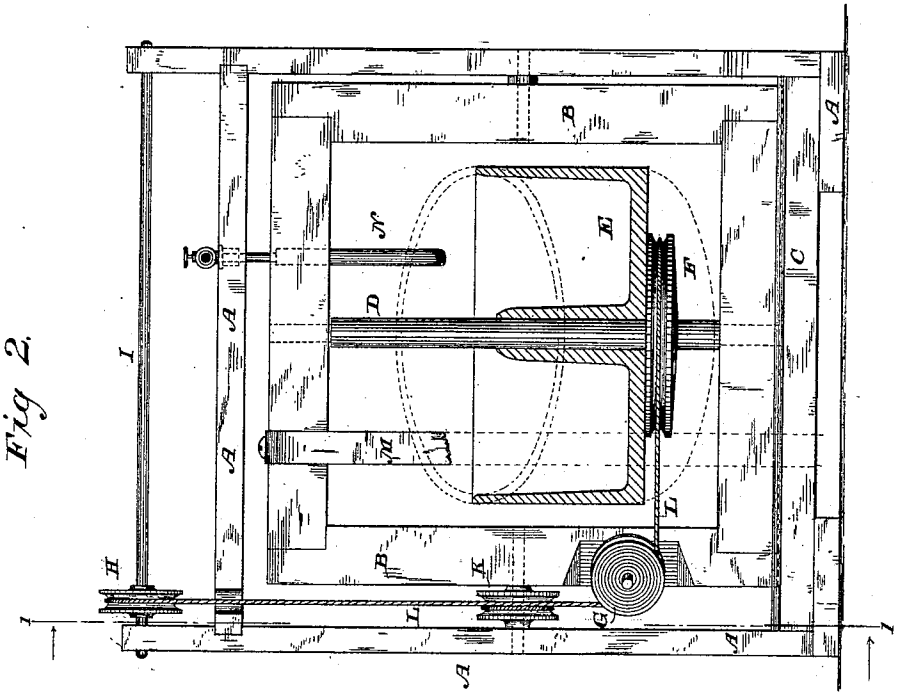
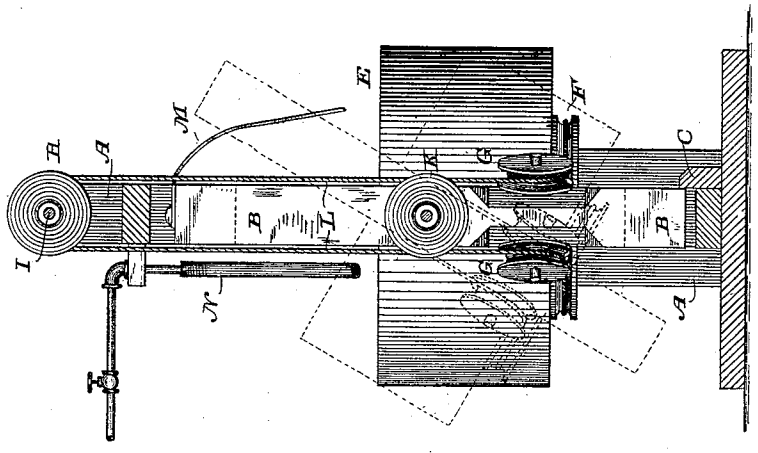


Fig. 1.



WITNESSES

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UNITED STATES PATENT OFFICE.

FRIEDRICH MELKERSMAN, OF ST. CHARLES, MISSOURI.

WASHER AND SEPARATOR FOR HOMINY, &c.

SPECIFICATION forming part of Letters Patent No. 265,619, dated October 10, 1882.

Application filed August 10, 1882. (No model.)

To all whom it may concern:

Be it known that I, FRIEDRICH MELKERSMAN, of St. Charles, in the county of St. Charles and State of Missouri, have invented a new and useful washer and separator for cleaning and grading or separating hominy, grits, or other granular products or substances, of which the following is a specification, reference being had to the accompanying drawings.

The special object of my invention is to cleanse and grade or separate hominy or grits; but it may be used for washing sand or any other substance that it is desirable to cleanse or grade and separate automatically.

In the accompanying drawings, which illustrate my invention, Figure 1 is a side elevation, and Fig. 2 is a vertical section, of my device.

A indicates a fixed frame, which may be of any suitable construction, for supporting the pivoted rocking frame B.

C indicates a suitable stop for limiting the movement of the rocking frame in one direction.

Supported in suitable bearings in the rocking frame is the vertical shaft D, to which is fixed the tub or receptacle E, provided at its bottom with a band-pulley, F; or the band-pulley may be separate from the tub and fixed in the shaft.

G G are two guide-pulleys. H is a driving-pulley upon a driving-shaft, I, and K is a pivot or guide-pulley, over which one side of the band L is looped, as illustrated. By this arrangement of band and pulleys, as illustrated, the rocking frame and tub may be tilted to almost a reverse position while the tub is being rotated without increasing or diminishing the tension of the band at all.

M indicates a hand rope or strap, which may be provided with a series of holes or loops, and serves to tip the tub and its rocking frame, and to fasten and hold it at any angle of inclination desired.

N indicates a small-sized flexible water or other liquid pipe communicating with any suitable liquid-supply for delivering water into the tub whenever desired.

The operation of my cleaner and separator is as follows: A proper quantity of hominy or other granular substance is put into the tub and water admitted and the tub tilted, for example, to an angle of, say, thirty degrees. The driving mechanism is then put in operation and the tub rotated at a suitable speed. The result will be that the contents of the tub will be stirred and thoroughly agitated and the grains cleansed, the lighter particles and dirt rising to the top and flowing off in a current with the water-overflow. The granular substance supplied to the tub may, if desired, be delivered in a continuous stream through a suitable-sized pipe communicating with a suitable hopper or other receptacle. (Not illustrated.) Thus by this machine I accomplish, whenever desired, a continuous automatic washing and cleansing of any given substance, collecting the heavier and more valuable particles in the bottom of the tub and delivering over the balance into any suitable receptacle, which may be perforated or reticulated to let the water pass through it; or I can wash or separate a single charge or tubful of granular matter, and when that is finished readily dump the better parts collected and remaining in the tub, by pulling upon the hand-rope M, into any suitable receptacle. The tub may then be thoroughly rinsed while almost inverted and prepared for another charge.

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

1. In a machine for cleaning and separating hominy, grits, &c., the combination, with the fixed frame A, of the pivoted rocking frame B and the tub and its shaft and band-pulley, whereby the tub is rotated, supported by the rocking frame, substantially as set forth.

2. The combination, with the frame A, of the rocking frame B, the tub and its shaft and band-pulley, the guide-pulleys G G, the pivot guide-pulley K, the driving-pulley H, and the band, constructed and arranged substantially as set forth.

3. The combination, with the main frame A, of the pivoted rocking frame B, the tub and shaft, the belt-pulleys, the pull-cord, and the stop C, constructed and operating substantially as set forth.

In testimony whereof I have hereunto subscribed my name this 1st day of August, A. D. 1882.

FRIEDRICH MELKERSMAN.

Witnesses:

MARCUS S. HOPKINS,

W. C. DUVALL.