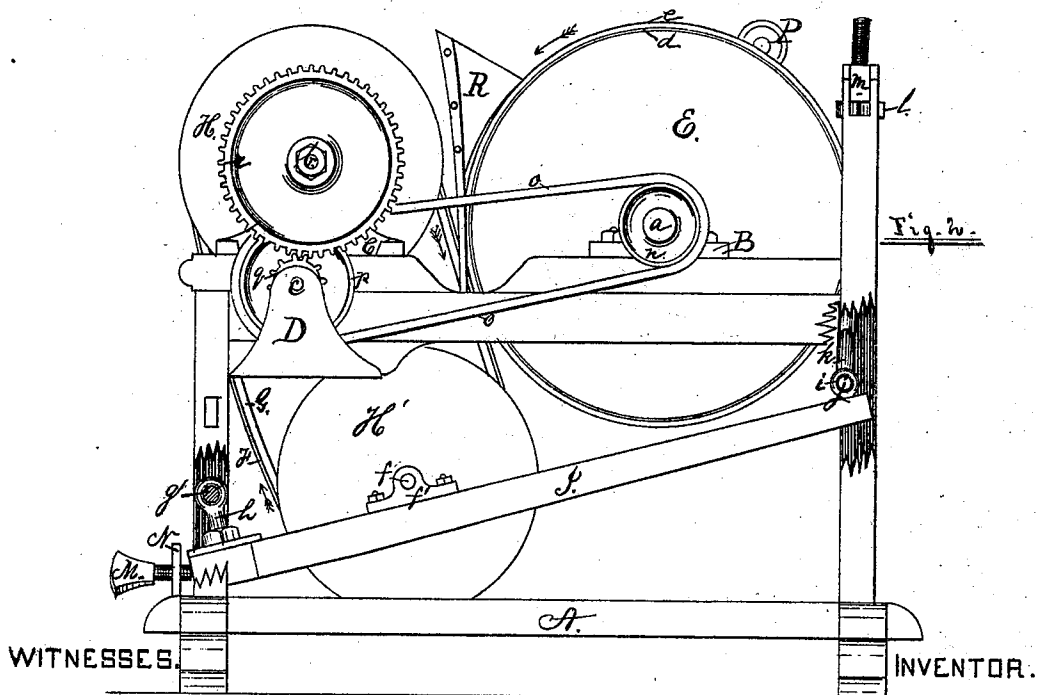
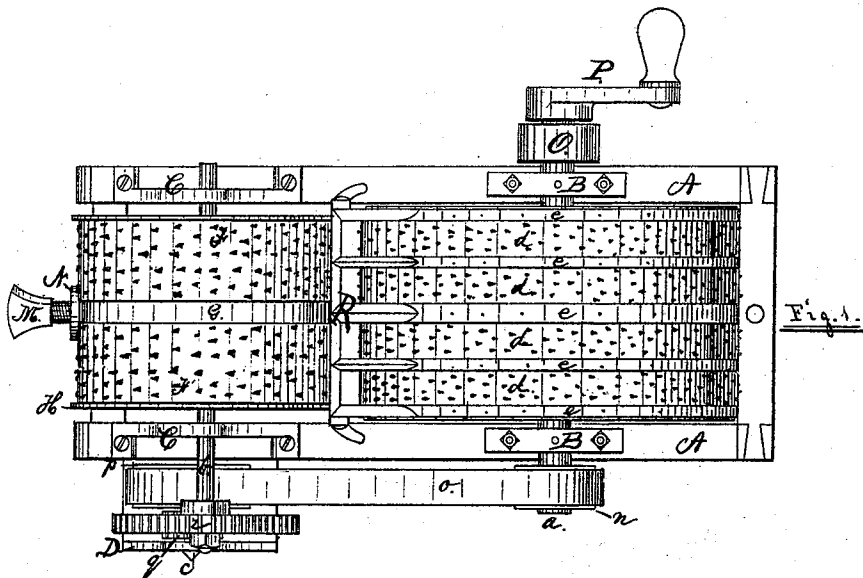


RICE HULLING MACHINE.

Patented Dec. 28, 1875.



H. A. Jenkins
T. J. Roach

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UNITED STATES PATENT OFFICE.

JOSEPH JOUET, OF NEW ORLEANS, LOUISIANA.

IMPROVEMENT IN RICE-HULLING MACHINES.

Specification forming part of Letters Patent No. 171,516, dated December 28, 1875; application filed February 18, 1875.

To all whom it may concern:

Be it known that I, JOSEPH JOUET, a resident of the city of New Orleans and State of Louisiana, have invented a certain new and useful Improvement in Machinery for Hulling Rice; and I do hereby declare the following to be a full, clear, and correct description of the same, reference being had to the annexed drawing, making a part of this specification.

Figure 1 is a plan or top view of my invention, and Fig. 2 a side elevation of the same.

A is a substantial frame of timber, to the upper longitudinal parts of which are secured, by means of bolts, the journal-boxes B, C, and D, for the support of the shafts *a*, *b*, and *c*. On the shaft *a* is rigidly keyed a drum, E, the periphery of which is encircled by four steel bands, *d d'*, &c. The outer sides of these bands are rasped or provided with teeth, the object of which will hereinafter be described. The said bands are secured to the drum E by means of steel rings, which are fastened over their edges, as shown on the drawing at *e e'*, &c. F F' are steel bands, which, with the exception of their edges and centers, have their outer surfaces rasped, or provided with teeth similar in all respects to those of the bands *d*. The bands F are secured by rivets to a leather or rubber belt, G, which is stretched over the flanged pulleys H H'. The latter pulley is secured to the shaft *f*, the ends of which operate in the journal-bearings *f'* of the adjustable frame I, so that the smooth portions of the bands F F' may glide over the rings *e* of the drum E, thereby bringing the teeth or rasped portions of the bands F F' in close proximity to those of the bands *d*, &c. The butt-end of the frame I is secured to the transverse rod *g* by an eyebolt, *h*, and the frame itself held in suspension by the belt G and steel bands F F'. The outer end of the frame I is provided, near its edges, with a pair of eyebolts, *i*, into which are fitted the forked ends *j* of the vertical rod *k*, the upper portion of which is threaded, and provided with a nut, *l*, which, acting against the lower side of the cross-timber *m*, through which the upper portion of the rod *k* passes, serves as an adjuster

for the frame I, through which the tension upon bands F F' is regulated. M is a set-screw, which, operating in a lug, N, against the butt-end of the frame I, serves to hold the said frame steady in any desired position.

Motion is imparted to the machine from the pulley O or crank P to the drum-shaft *a*, on the opposite end of which is keyed a pulley, *n*, from which, by means of a belt, *o*, the motion is transmitted to the pulley *p* of the shaft *c*, and from the said shaft by means of a pinion, *q*, meshing into the cog-wheels *r* to the shaft *b* and pulley H, the latter imparting the motion to the steel bands F F', causing them to travel in the direction indicated by the arrow-points.

R is a hopper, provided with four channels, through which the rough rice is conveyed and delivered, between the rings *e*, to the bands *d*, which, traveling much more rapidly than the bands F, necessarily draw the grain over or through the teeth or rasped surfaces of the latter, thereby causing the grain to be entirely divested of its covering, and delivering it uninjured beneath the machine, from whence it may be conveyed by any suitable means to a fanning-machine for separation from the chaff.

What I claim as new, and desire to secure by Letters Patent, is—

1. The drum E, having steel bands *d d'*, having teeth secured around its periphery by means of steel rings *e e'*, and the steel bands F F', endless belt G, pulleys H H', and hopper R, the whole being constructed, combined, and arranged to operate substantially as described.

2. The drum E, having steel bands *d d'*, provided with teeth secured around its periphery by means of steel rings *e e'*, and the steel bands F F', having teeth, as shown, endless belt G, pulleys H H', and the adjusting-frame I, the whole being constructed, combined, and arranged to operate substantially as described.

JOSEPH JOUET.

Witnesses:

H. N. JENKINS,
T. J. ROACH.