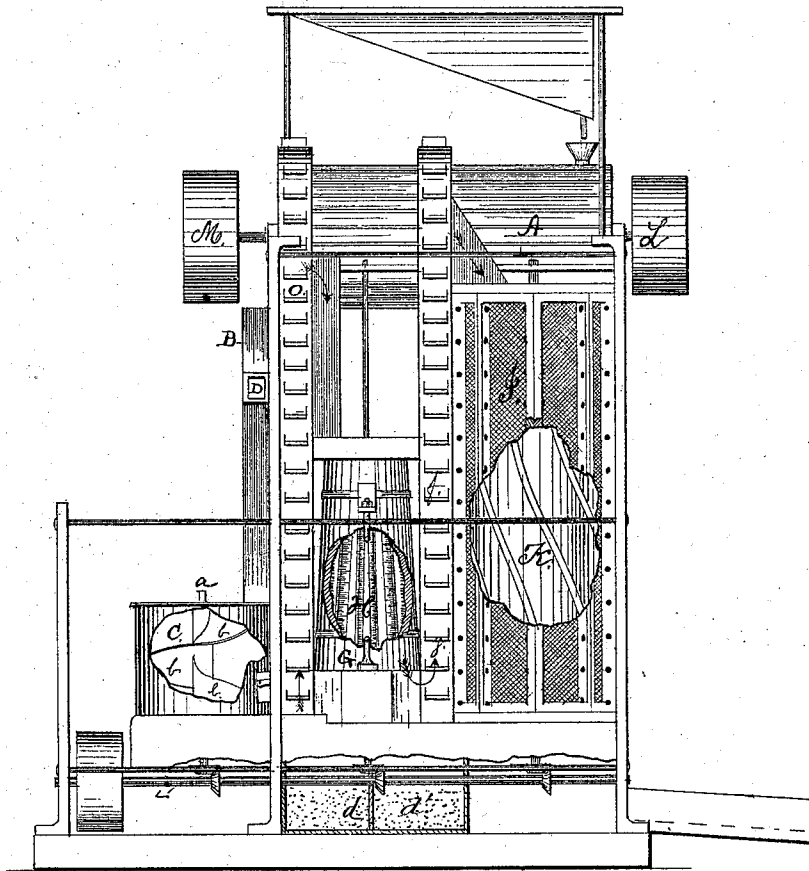


2 Sheets--Sheet 1.

J. N. WHITE.
Rice Cleaning Machines.

No. 136,117.

Patented Feb. 18, 1873.



WITNESSES.

H. C. Jenkins
S. J. Olmstead

INVENTOR.

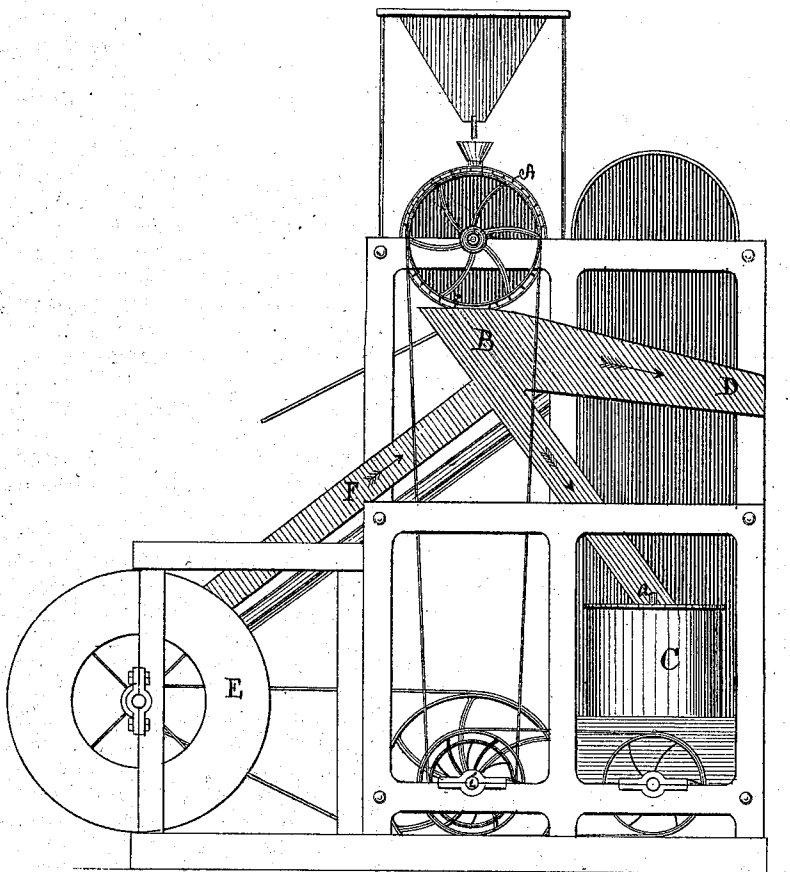
John N. White

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WITNESSES.

H. M. Perkins
S. J. Olmstead

INVENTOR.

John N. White.

UNITED STATES PATENT OFFICE.

JOHN N. WHITE, OF NEW ORLEANS, LOUISIANA, ASSIGNOR OF ONE-FOURTH
HIS RIGHT TO GEORGE E. SEARS, OF SAME PLACE.

IMPROVEMENT IN RICE-CLEANING MACHINES.

Specification forming part of Letters Patent No. 136,117, dated February 18, 1873.

To all whom it may concern:

Be it known that I, JOHN N. WHITE, of the city of New Orleans, parish of Orleans and State of Louisiana, have invented an Improvement on a Rice Cleaning and Polishing Machine for which Letters Patent of the United States were granted to me dated September 12, 1871, and numbered 118,889, of which the following is a specification:

My improvement consists in a combination and arrangement of devices as hereinafter described and illustrated on the accompanying drawing—

Plate 1 being a vertical side view, and Plate 2 a vertical section and end view combined.

Similar letters of reference indicate corresponding parts of the device shown on both plates.

A is the huller, which, as before stated, having been patented, it is not necessary to fully describe in this specification.

From the end of the said huller A the rice, together with the hulls which have been loosened therefrom, are delivered into the chute B, the grains of rice passing directly into the agitator or worker, shown at C, while the hulls, being lighter, are driven out through the mouth of the tube D by means of the operation of the rotary fan, shown at E, driving a current of air through the tube F, as clearly shown on Plate 2. The said worker or agitator C is an upright cylindrical vessel, in which a vertical shaft, *a*, having radial or screw blades *b* secured thereto, revolves, by which means the cuticle which remains thereon and which has not been removed by the huller aforesaid is completely loosened or removed therefrom. From the said worker or agitator C the grains of rice fall through the tube *c* into the receptacle *d*, whence they are elevated by means of buckets *o o'*, in the usual manner, in the direction indicated by the arrows *e*, so as to fall into the brusher G. The said brusher G is likewise cylindrical, and provided with an interior vertically-revolving drum, upon the outer perimeter of which are secured, in any suitable manner, brushes composed of palm-leaf or any other equivalent fibrous material. The rice, when brought into contact with the revolving interior cylin-

der H and fibrous brushes therewith connected, will be entirely and completely divested of all the fine particles of any of the cuticle which may not have been previously removed by the action of the worker or agitator aforesaid. From the said brusher G the rice falls into the receptacle *d'* beneath the same, whence, by the elevator *f*, it is taken up in the direction indicated by the arrows *g*, and falls into the polisher I. The said polisher I is a vertical cylindrical vessel, the outer casing of which is composed of finely-woven wire-cloth, which permits a free exit of any dust which may adhere to the rice as the same is being subjected to the polishing process effected within the said polisher I by means of the vertically-revolving interior polishing-cylinder, shown at K; the surface of this interior rotating cylinder being provided with sheep-skin with the wool thereon, which, as I have demonstrated by repeated experiments, effects the operation of polishing the rice in a very thorough manner.

From the said polisher the rice is delivered ready for market or for consumption. The pulley L of the huller A is driven by a belt from any motive power at hand, and upon the opposite end of the same shaft upon which the said pulley L is placed, is keyed the pulley M, from which, by means of a belt, motion is communicated to the horizontal shaft *i*, which is provided with bevel-gear, as clearly shown, for the purpose of imparting rotary motion to the vertical shaft *s* within the worker, brusher, and polisher. Upon this shaft is likewise placed other pulleys for the purpose of working the fan E and elevators, before mentioned.

Having described my invention, what I desire to secure by Letters Patent is the following:

In combination with the huller A and chute B, having tube D and fan E, the agitator or worker C, receptacles *d d'*, brusher G H, polisher I K, and elevators *o f*, the whole being constructed and arranged substantially as described, as and for the purpose specified.

JOHN N. WHITE.

Witnesses:

H. N. JENKINS,
L. J. OLMSTEAD.