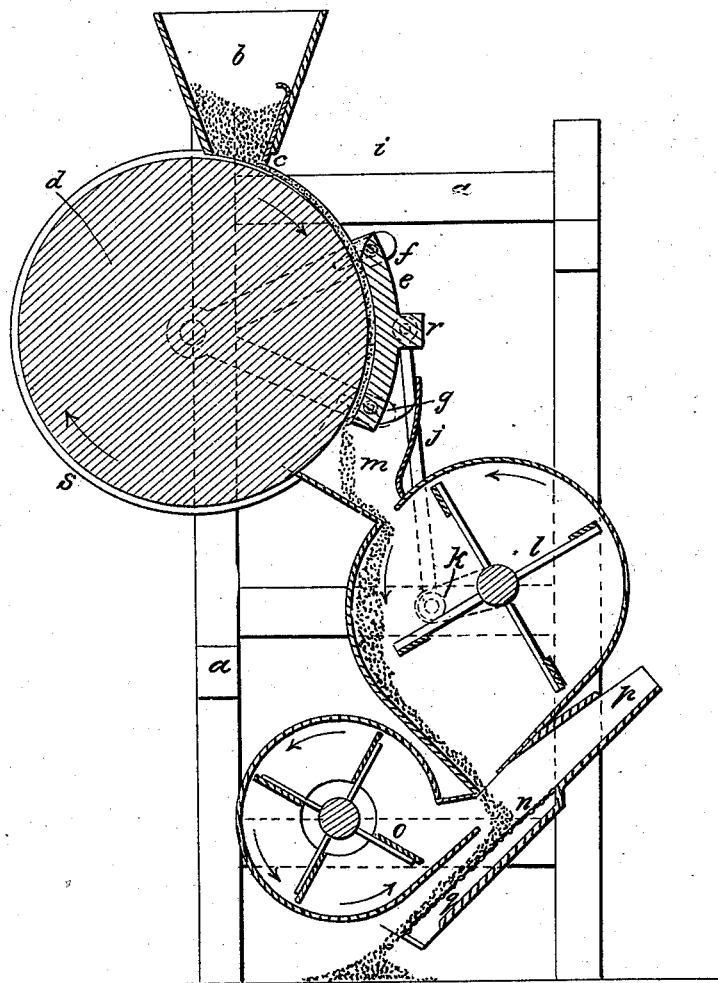


F. WRIGHT.
Smut Machine.

No. 7,333.

Patented April 30, 1850.



UNITED STATES PATENT OFFICE.

FRANKLIN WRIGHT, OF INDIANAPOLIS, INDIANA.

RUBBER OF SMUT-MACHINES.

Specification of Letters Patent No. 7,333, dated April 30, 1850.

To all whom it may concern:

Be it known that I, FRANKLIN WRIGHT, of Indianapolis, Marion county, Indiana, have invented new and useful Improvements in Smut-Machines; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawing, making part of this specification, in which drawing a vertical section of the machine illustrates its operative parts.

The nature of my invention consists in constructing the machine with a vibrating concave rubber which operates in connection with a feeding and rubbing cylinder; the cylinder forming the bed against which the rubber rolls the grains and thereby pulverizes and detaches the smut. This machine is also adapted to hull rice and act usefully on similar articles.

(*a*) is a frame suitably constructed for hanging the movable and other parts of the machine. (*b*) is a hopper for holding the grain in bulk, while through a gate (*c*) therein the feeding and rubbing cylinder (*d*) conveys the grain to and acts upon the grain in connection with the vibrating rubber (*e*). The vibrating-rubber (*e*) is a section lengthwise of a cylinder and is held to its place by arms (*f*) and (*g*) that play upon the shaft (*h*). The vibrator (*e*) is adjusted by means of slots (*i*) in the arms (*f*) and (*g*) and screws passing there-through into the ends of the vibrator. Motion is given to the vibrator (*e*) by the arm (*j*) which is operated by a crank (*k*) on the shaft of the beater (*l*). These arrangements are also made at the other end of the vibrator so as to steady its motion and keep

it throughout its whole length at the same adjustment. (*m*) is the trough into which the grain &c. falls and is conveyed to the beater (*l*) which is incased in the usual way; the case being made trough-shaped at the bottom where it leads to the top of the screen (*n*). The air-blast from the fan (*o*) is made to issue at the same point, so as to pass through the grain and smut &c., as they fall. The smut and dust &c. is thereby blown out at the spout (*p*) while the grain is discharged at the foot of the screen.

Such matter as is not of size equal to the grain falls through the screen into the receptacle (*q*) from which it is guided off into a heap separate from the grain.

A drum, not shown in the drawings, is placed on one end of the shaft (*h*). By suitable belting from this drum, the several parts of the machine are moved in the line of the arrows; the vibrator receiving its motion, as before described, from the shaft of the beater, through the crank (*k*) and connecting rod (*j*) which is jointed to the vibrator at (*r*).

(*s*) is a flange at the end of the cylinder (*d*) for keeping in the grain.

Having thus described the nature and construction of my invention what I claim therein as new and desire to secure by Letters Patent is—

The combination with the feeding and rubbing cylinder (*d*) constructed and operated substantially in the manner and for the purpose described.

FRANKLIN WRIGHT.

Attest:

THOS. G. CLINTON,
GEO. H. KNIGHT.