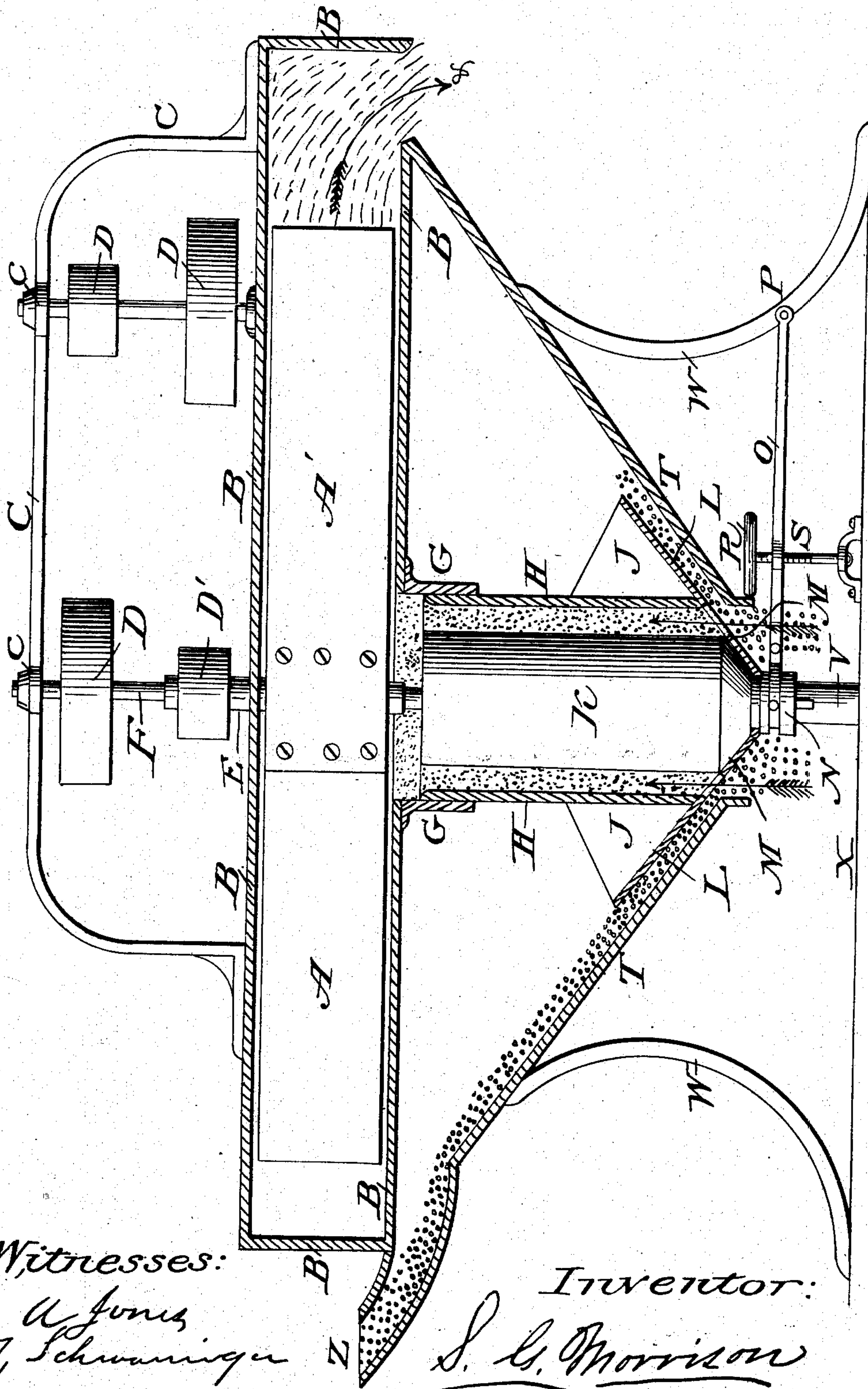


No. 32,578.

PATENTED JUNE 18, 1861.

S. G. MORRISON.

MACHINE FOR CLEANING AND FEEDING GRAIN TO BUR MILLSTONES.



Witnesses:

A. Jones  
J. Schwaninger

Inventor:

S. G. Morrison



# UNITED STATES PATENT OFFICE.

SAMUEL G. MORRISON, OF WILLIAMSPORT, PENNSYLVANIA.

CLEANING AND FEEDING GRAIN TO BUR-MILLSTONES.

Specification of Letters Patent No. 32,578, dated June 18, 1861.

*To all whom it may concern:*

Be it known that I, SAMUEL G. MORRISON, of Williamsport, in the county of Lycoming and State of Pennsylvania, have invented a new and Improved Machine for Cleaning and Feeding Grain to Bur-Millstones; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention is using an inverted conical hopper in the center of which is placed a cylinder attached to the spindle or shaft by armatures at the lower end only with a cylindrical filling of wood, surrounding the spindle for the purpose of diminishing the space in said cylinder and thereby adapting the air space to the exhaust fan, and also attached to and surrounding said cylinder and constructed of hard wood, or metal, a rubber or washer for the purpose of scouring or cleaning the grain and regulating the feed. The upper end of this vertical cylinder revolves fitting in a flange attached to the bottom of a horizontal fan box; all of which parts are so driven as to feed in regularly the grain, scouring it and removing by a vertical draft of air in the cylinder all matters specifically lighter than the grain.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct an inverted conical hopper as shown by T. T. in the drawing forming a part of this specification, through the center of which passes a vertical spindle V. extending to the box c. On this spindle and driven by a feather is a flange N. to which are attached two armatures M. M. driving the inverted conical rubber L. L. and the cylinder H. H. the space between L and H being filled by wood J. J. and the upper end of the cylinder H. H. revolving in the flange

G. G. the space between the cylinder H. H. and the spindle being decreased by the cylindrical piece of wood K, attached at the lower end to the armatures M. M. the flange G. G. being attached to the bottom of the fan box B. B. B. B. B., A. A' being two of the wings of the fan and attached to a sleeve E. E. revolving on the spindle V. F. and driven by the pulley D' which pulley is driven by a band running from pulley D on the spindle and to the small pulley D on the countershaft, from the large pulley on which countershaft a belt drives D'.

C. C. C. is a frame for holding the upper boxes c. c. of the spindle and countershaft.

Z. is a spout for feeding in the grain to the hopper.

& is the discharge opening of the fan box.

W. W. are legs supporting the whole, to one of which at P is attached the lever o. o. raised or depressed by the screw s. driven by the hand wheel R. and by a clutch at N. raising or lowering the flange N. and its attachments.

As the grain falls into the hopper at Z. it is scoured and fed in by the rubber L. L. which is dressed as may be desired and corresponding to the dress of the opposing part of the hopper, as the grain passes to M. M. the cleaned grain drops and the lighter substances are by the exhaust drawn up between K and H and discharged at &.

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

The hopper (T. T.), constructed and used as herein before described, the cylinder (H. H.) with its rubber, and the cylinder (K) in combination with the horizontal exhaust fan, and the feed regulating device.

SAML. G. MORRISON.

Witnesses:

J. A. MONTGOMERY,  
A. R. MOORE.