

A. STRAUB.

Winnowing Machine.

No. 7,029.

Patented Jan'y 15, 1850.

Fig: 1.

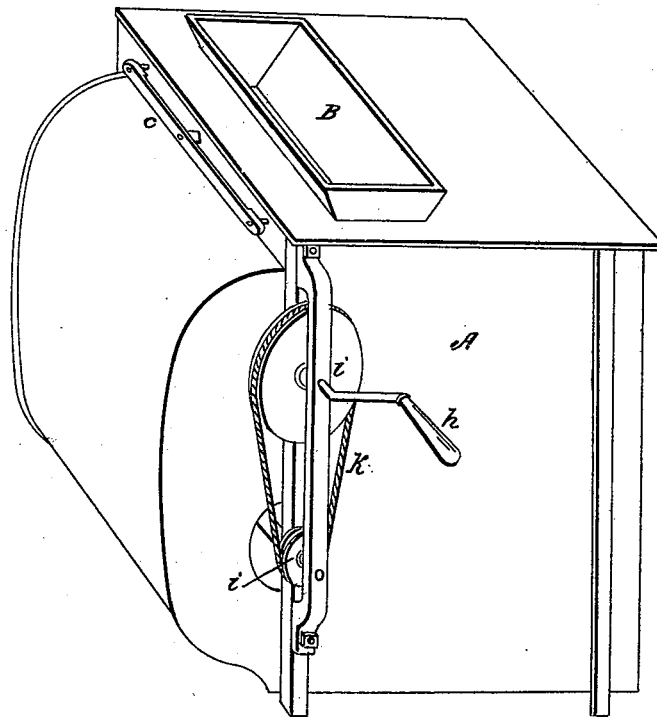
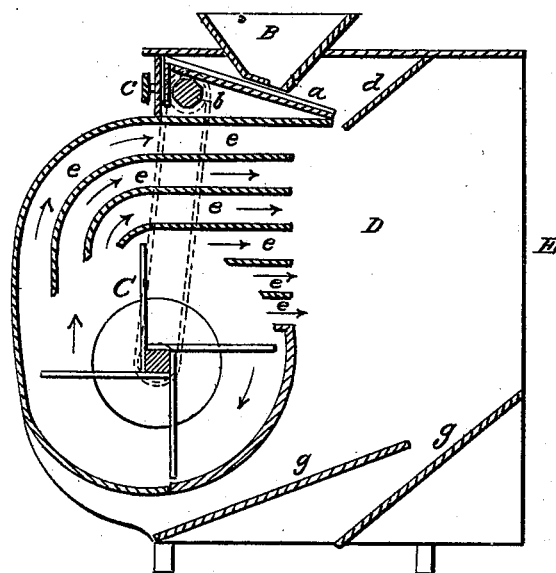


Fig: 2.



UNITED STATES PATENT OFFICE.

ABRAHAM STRAUB, OF MILTON, PENNSYLVANIA.

WINNOWING-MACHINE.

Specification of Letters Patent No. 7,029, dated January 15, 1850.

To all whom it may concern:

Be it known that I, ABRAHAM STRAUB, of Milton, in the county of Northumberland and State of Pennsylvania, have invented certain new and useful Improvements in Winnowing-Machines, which are clearly and fully set forth in the following description, reference being had to the accompanying drawing, which forms part of this specification, and in which—

Figure 1 represents a perspective view of my improved winnowing machine, and Fig. 2 a vertical longitudinal section through the same.

The most important of these improvements consists; first, in delivering the threshings or foul grain to the blast in a direction the reverse of that in which the latter is moving; and second, in the peculiar method of distributing the blast generated by the fan.

In the drawing A, is the case of my machine to the top of which a hopper B is attached in which the threshings are deposited, these last are delivered from the hopper and distributed equally throughout the breadth of the case by the shoe *a* to which a shaking motion is communicated by a polygonal roller *b* aided by a spring *c*. The threshings as they leave the front edge of the shoe strike against an inclined board *d* by which they are deflected against the blast generated by a fan C. The latter discharges its blast into a number of parallel channels *e, e, e, e*, by which it is distributed evenly into the separating chamber D

through which the threshings fall. In this passage the garlic, smut, cheat, chaff &c., is blown out at the open front E, while the heavier products are received upon the inclined boards *g, g*, by which they are separately discharged from the machine.

The power to drive the machine is communicated through a crank *h*, pulleys *i, i'*, and belt *k*, to the fan C, whence motion is imparted to the polygonal roller by a belt encircling pulleys attached respectively to the shafts of the fan and polygonal roller *b*. (This belt and the pulleys being at the back of the case and represented in red lines in Fig. 2.)

The several parts of my machine may be made of such materials as the constructor may see fit to employ and motion may be communicated to the several moving members by cog wheels in place of belts and pulleys.

Having thus described my improved winnowing machine what I claim therein as new and desire to secure by Letters Patent is—

The combination of a series of wind passages (*e*) with a separating chamber (D), or other device for presenting the foul grain to the action of the blast, and a fan (C), for producing the blast, substantially as herein set forth.

ABRAHAM STRAUB.

Witnesses:

JNO. MILLER,
H. M. DAVISON.