J. W. WEBB.

Corn Sheller.

No. 840. Patented July 16, 1838.

Fig 1.

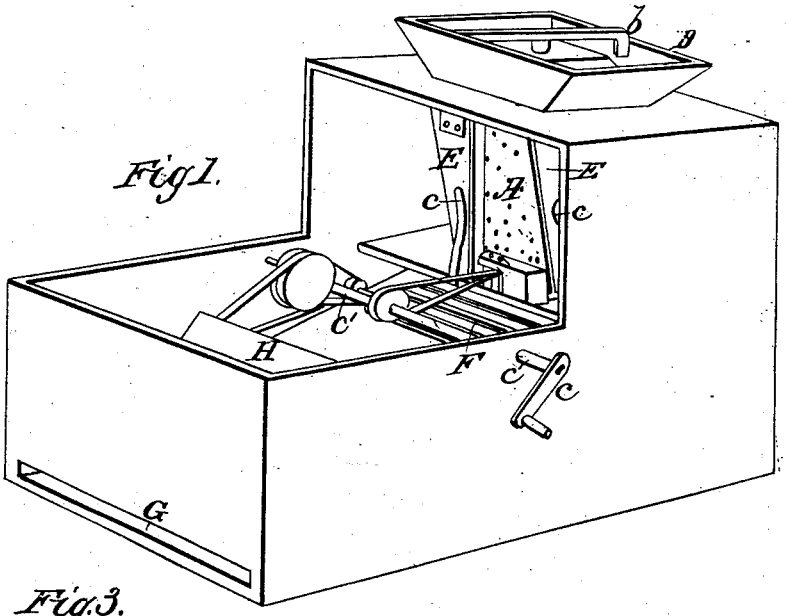

Fig 3.

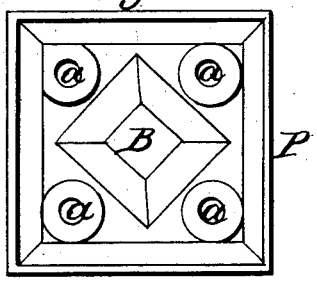

Fig 2.

UNITED STATES PATENT OFFICE.

JOS. W. WEBB, OF MOUNT MORRIS, NEW YORK.

MACHINE FOR SHELLING AND CLEANING CORN.

Specification of Letters Patent No. 840, dated July 16, 1838.

To all whom it may concern:

Be it known that I, JOSEPH W. WEBB, of Mount Morris, in the county of Livingston, in the State of New York, have invented an Improved Machine for Shelling and Cleaning Corn; and I do hereby declare that the following is a full and exact description thereof.

Figure 1 in the accompanying drawing is a perspective view of the machine. Fig. 2 a vertical section thereof, and Fig. 3, top view of the hopper.

In each of the figures where the same parts are represented, they are designated by the same letters of reference.

A is a vertical cylinder, which is set with teeth upon its periphery, and which is to be turned by a band or cog wheel on its lower gudgeon; its upper gudgeon running in a collar in the center of a projecting piece B, standing on the bottom, and the middle of the hopper, for a purpose to be presently explained. The cylinder receives its motion from the shaft C′, C′, which may be turned by a winch C, or by any suitable power.

The corn to be shelled is thrown into the hopper D, a top view of which is given in Fig. 3, where B is the projecting piece before spoken of. This piece is so formed as that, with the sides of the hopper, it shall constitute four, or any other convenient number of funnel shaped excavations, with holes, *a*, *a*, *a*, *a*, at their bottoms, sufficiently large to admit an ear of corn to pass readily through them.

The corn to be shelled is thrown in quantity into the hopper, by the inclined sides of which, and of the projecting piece B, it is conducted to the holes *a*, *a*; and to prevent its clogging over either of the holes, an agitation *b*, *b*, is carried around by means of the upper gudgeon of the cylinder A.

Under the holes *a*, *a*, which are over the periphery of the cylinder there are triangular troughs E, E, which lead down from them to the bottom of the cylinder, which cylinder forms one side of each of these troughs. The other two sides consist of two pieces of plank, nailed together along two of their edges; these have some play, and are borne up toward the cylinder by means of springs *c*, *c*, which must be of sufficient strength to insure the shelling of the corn by the teeth of the cylinder, and have sufficient play to adapt them to ears of different sizes.

Below the cylinder there is a revolving endless apron F, F, which is formed of slats connected together by suitable girths, or bands, and at such distance apart as to allow the corn to fall through, while the cobs remain at top, and are carried off by the revolving apron, and thrown out at the back of the machine. The corn falls upon the inclined floor G, G, and in its passage is cleared from dirt and chaff by the revolving fan H, H.

It is unnecessary to describe the construction of the whirls and belts, or of the gearing by which the respective parts may be driven, as these may be varied, and are similar to such as are used in other machines.

I do not claim as of my invention either of the parts of the above described machine taken individually; but I do claim the particular manner in which I have combined them together for the purpose of shelling and cleaning corn; that is to say, I claim in combination with such a machine, constructed as above, the endless apron of slats for carrying off the cobs, while the corn is cleaned by the fan wheel.

J. W. WEBB.

Witnesses:
EDWIN S. HARRIS,
ABISHER GREEN.