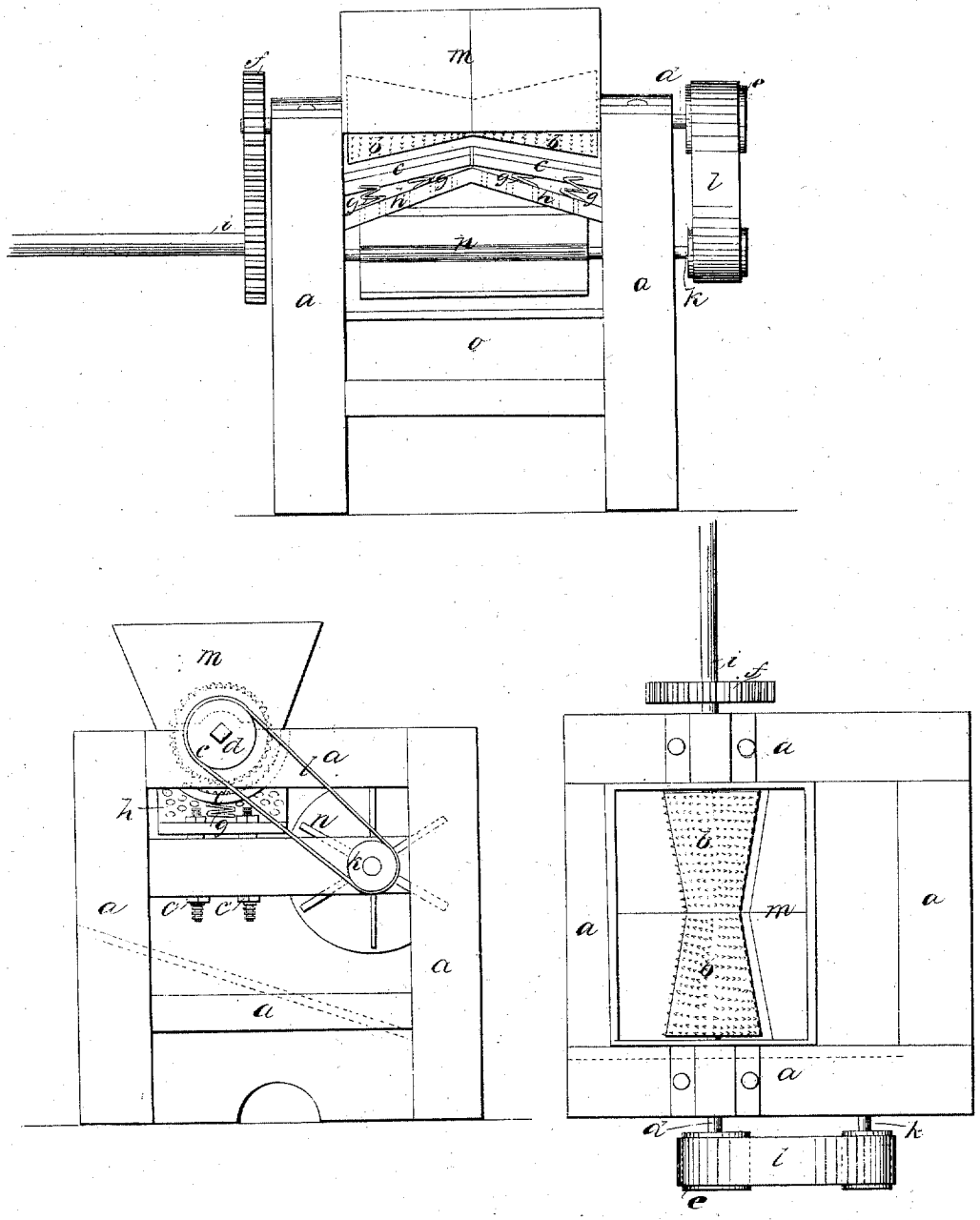
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J. ROSS.

MACHINE FOR SHELLING CORN.

Patented Apr. 12, 1833.



April 12. 1833

7531X Joseph Ross

April 12, 1833

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Letters Patent.

The Schedule referred to in these Letters Patent and making part of the same, containing a description in the words of the said Joseph Ross himself of his Improvement in the Machine for shelling corn.

To all whom it may concern Be it known that I Joseph Ross of Somerset County new Jersey have made an improvement in the machine for shelling corn which is described as follows.— This Machine consists of the following principle parts viz. The frame which supports and contains the Machinery, The two frustums of cones covered with pins or projections; the concave beds covered with sheet iron, in which the cones work; The springs for pressing the beds towards the cones: and the gearing by which the Machinery is turned. The frame is constructed by Mortising and tenoning together four posts, two side pieces; two end pieces; and a frame around the top so as to produce a square or parallelogram figure of sufficient size, to receive the several parts of the Machinery. The two frustums of cones are placed with their apices, pointed in the center, and they are covered all over with pins or projections, at proper distances apart for rubbing out the corn; They turn on an axle, supported in boxes in the frame. This axle is prolonged to receive a wheel, and any wheel to be hereafter described, These frustums of cones may be made of wood, and covered with cast iron plates, having projections on them instead of pins, but in such it is before described; or it may be entirely of iron and projections or teeth, as in the cut hereunto annexed. Concave bed is placed against each cone of the same description as the cone, and calculated to admit the ear to turning freely in it. Two or more springs are placed behind each bed, which puts it against the cone. The support of these concave beds, consists of two broad pieces of timber, placed in a slanting position from the center of the Machine, having

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having a number of openings through them, to admit the grains of corn to fall through; which pieces of timber with the canvas box are brought nearer to, or further from the cones by screw bolts, passing through their ends, and the side pieces of the frame. The gearing for turning the Machinery, is a small cog wheel, and a wheel, placed on the same axle, with the cones. This cog wheel works into another cog wheel, placed on the axle of the driving power; another wheel is placed on an axle, at the hinder end of the frame, for turning a fanning mill; — a band passes round this wheel and that, upon the axle of the double cone. A hopper is placed in the trough, and above the double cone, for receiving the ears of corn. An inclined board, is placed below the double cone, and leads, to receive the corn as it is shelled, and to conduct it to the end of the Machine, where the pan is placed. The winnowing Machine, is made, and acts in the usual manner. Operation. The hopper being filled, and the Machine put in Motion by any convenient power, the ears descend between the cones, and beds where the grains are rubbed off, by the projections or pins. The grain, descending down the inclined plane, to the winnowing Machine, and the cobs flying out at the sides of the Machine.

The invention here claimed, and desired to be secured by Letters Patent, consists, of the combination and arrangement of the several parts of the before described Machine for shelling corn; but particularly, the two frustums of cones, united in the centre, and covered with teeth, or projections. The claim is made to the other parts of the Machine taken separately. For a further illustration of my invention, I refer to the model and drawing of the same deposited in the Patent Office. In testimony whereof, I have hereunto subscribed my name, this 6th day of April 1838.

Witnesses,

Joseph Ross

Wm. William Elliot

Wm. Thomas A. Elliot

(Examined April 10th 1838.)