2 Sheets—Sheet 1.

R. GREEN.

Corn Sheller.

No. 20,266. Patented May 18, 1858.

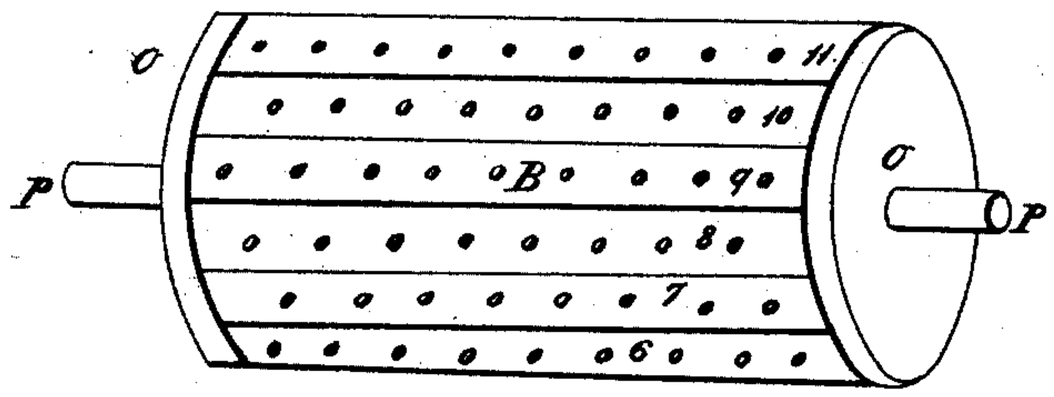

Fig: 3.

Fig: 1.

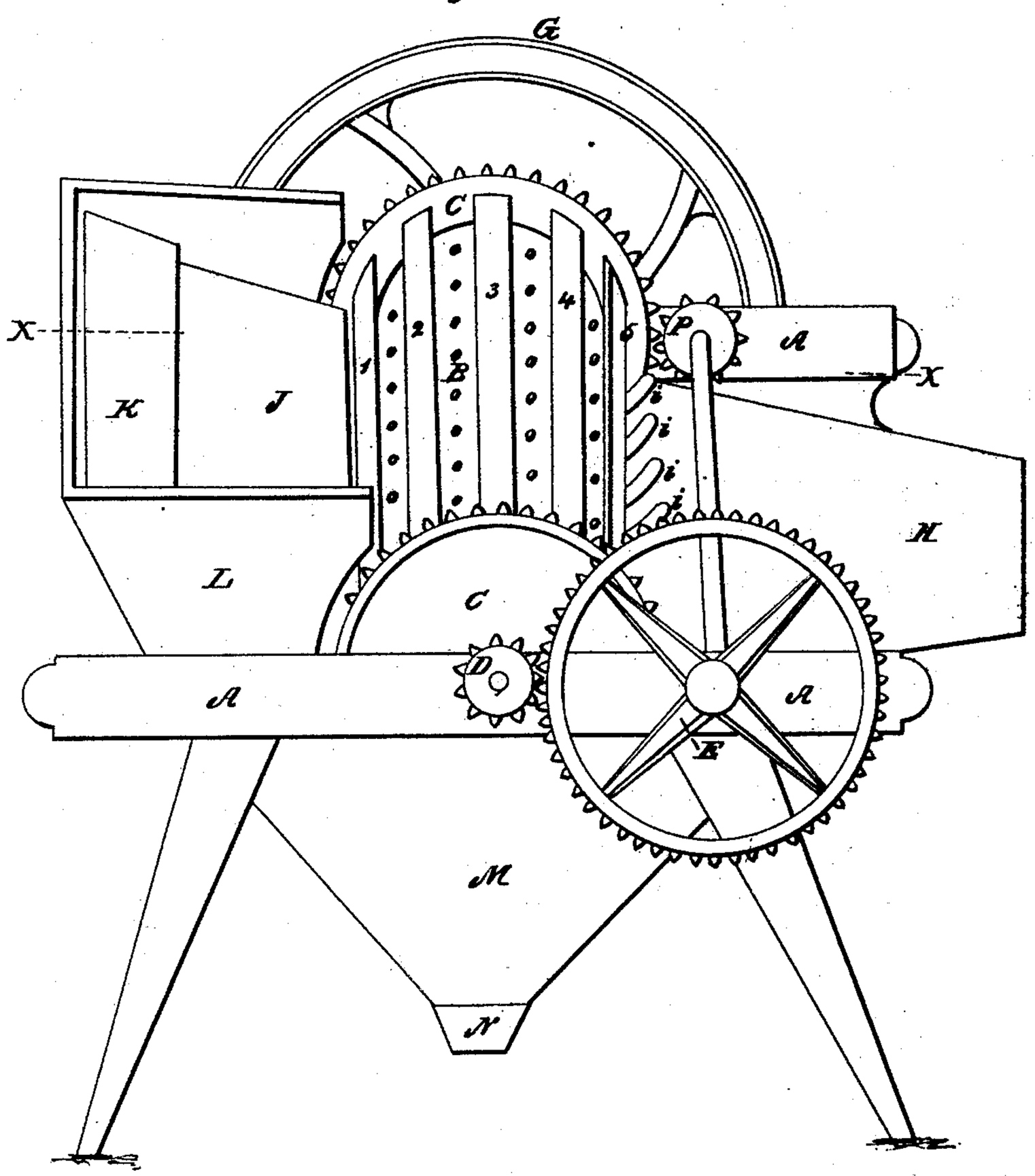

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Fig: 2.

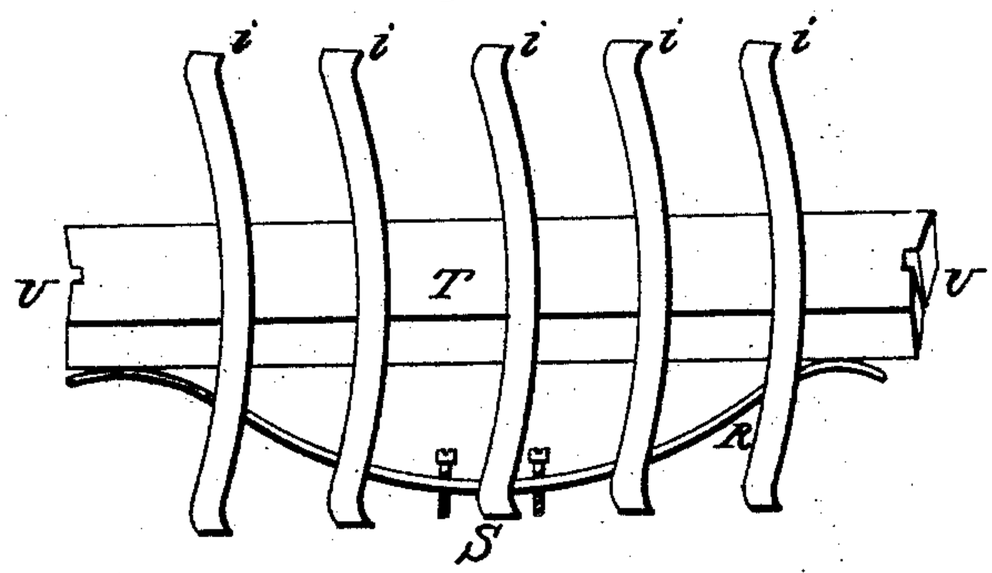
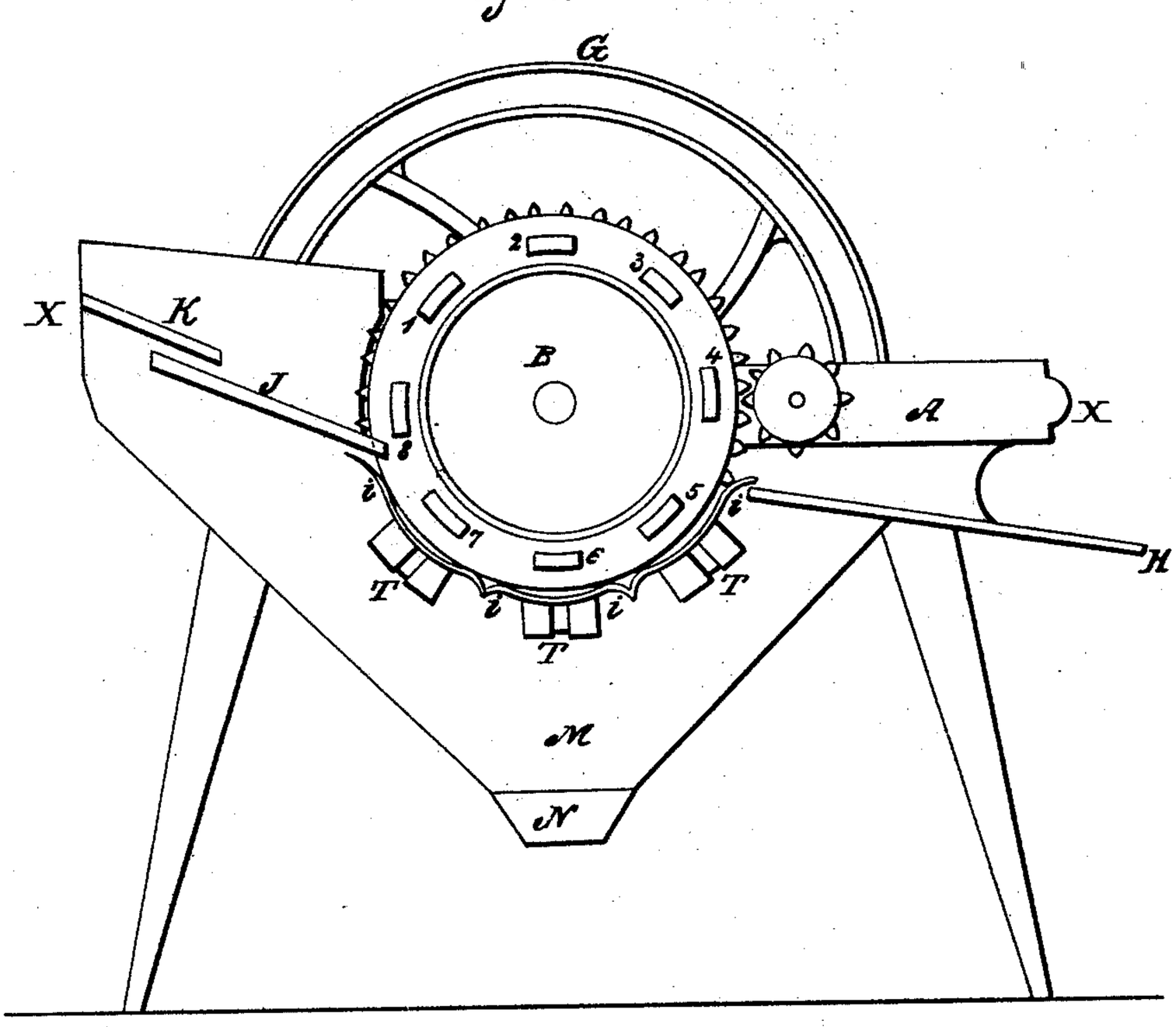


Fig: 4.



UNITED STATES PATENT OFFICE.

RAY GREEN, OF CUSSEWAGO, PENNSYLVANIA.

CORN-SHELLER.

Specification of Letters Patent No. 20,266, dated May 18, 1858.

To all whom it may concern:

Be it known that I, RAY GREEN, of Cussewago, in the county of Crawford, State of Pennsylvania, have invented a new and useful Improvement in Machines for Shelling Corn; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and the letters of reference marked thereon.

Figure 1 represents my machine with all its parts arranged in working order. Figs. 2 and 3 are parts of the same detached. Fig. 4 is a vertical transverse section through the line *x x* of Fig. 1.

A A A is the frame of the machine.

G is a balance or fly wheel.

B is a cylinder made of cast iron as follows to wit, the heads *o o* (see Fig. 3) are cast with a gudgeon or axle *p p* on each; 6, 7, 8, 9, 10, 11, are staves also of cast iron with shelling teeth cast on their convex side. These staves may be of any desired width to suit the circle of the heads *o*, *o*, the end of the staves fit in a groove around the heads *o*, *o*, and are fastened together either by rods passing through the whole length of the cylinder or by screws as may be desired.

C C are two cog wheels running on the axles of the cylinder. The fly wheel is also hung on the axle of the cylinder but fastened by a key or pin so as to revolve with it.

D is a small cog wheel on one end of the axle *p* which gears into the large cog wheel E; on the other end of the shaft of the wheel E is a small cog wheel which gears into the wheel C or there may be two small cog wheels on the same shaft of the wheel E gearing into the two wheels C, C. The wheels C, C, are attached to each other by means of the feeding strips 1, 2, 3, 4, 5, (see Figs. 1 and 4) the ends of which pass into mortises in the wheels C, C. These rods are of sufficient width apart to let an ear of corn pass in between them against the cylinder B, and as they revolve much slower than the cylinder they keep the corn a sufficient time against the cylinder to shell it and at the same time carry the cob around and discharge it over the fingers I′ I′ I′ and over the apron H which carries them off from the machine. Under the cylinder B is a concave composed of a number of pieces of wood running parallel with the cylinder one of which is represented at T Fig. 2. *i*, *i*, *i*, *i*, are spring fingers of iron or other suitable material bent in a circle somewhat larger than the circle of the feeding strips 1, 2, 3, 4, 5. The piece of wood T has a groove in each end as shown at *n*. These grooves work on guide strips fastened to the end board of the concave, M. R, is a steel spring bent in the shape shown on drawing Fig. 2 and bolted on the bottom of the frame of the machine by the screw bolts, S. The corn to be shelled is dropped in the hopper L and rolls down between the strips 1, 2, 3, 4, 5, and by them is carried down and around the cylinder, B, and is pressed up against the cylinder by the fingers *i i i i* Fig. 2 with sufficient force to shell the corn, while the spring R, accommodates the concave to the size of the ears of corn pressing the point and butt of the ear up equally. The corn when shelled passes between the pieces of wood T which are some two inches apart and passes out through the spout N. J is a feed board made to slide under the bottom of the hopper K to regulate the feed. The machine is propelled by a crank on one arm of the fly wheel C.

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

The shelling cylinder B constructed as described, revolving within the feeding cylinder, in combination with the feed regulating slide J, concave T T and springs R, fingers *i*, discharging apron H, and spout N when the several parts are constructed, relatively arranged, and operated in the manner and for the purposes set forth.

RAY GREEN.

Witnesses:
A. B. RICHMOND,
WM. W. GLENN.