

(No Model.)

E. OSTENSEN.
FERTILIZER DISTRIBUTER.

No. 311,444.

Patented Jan. 27, 1885.

Fig. 1

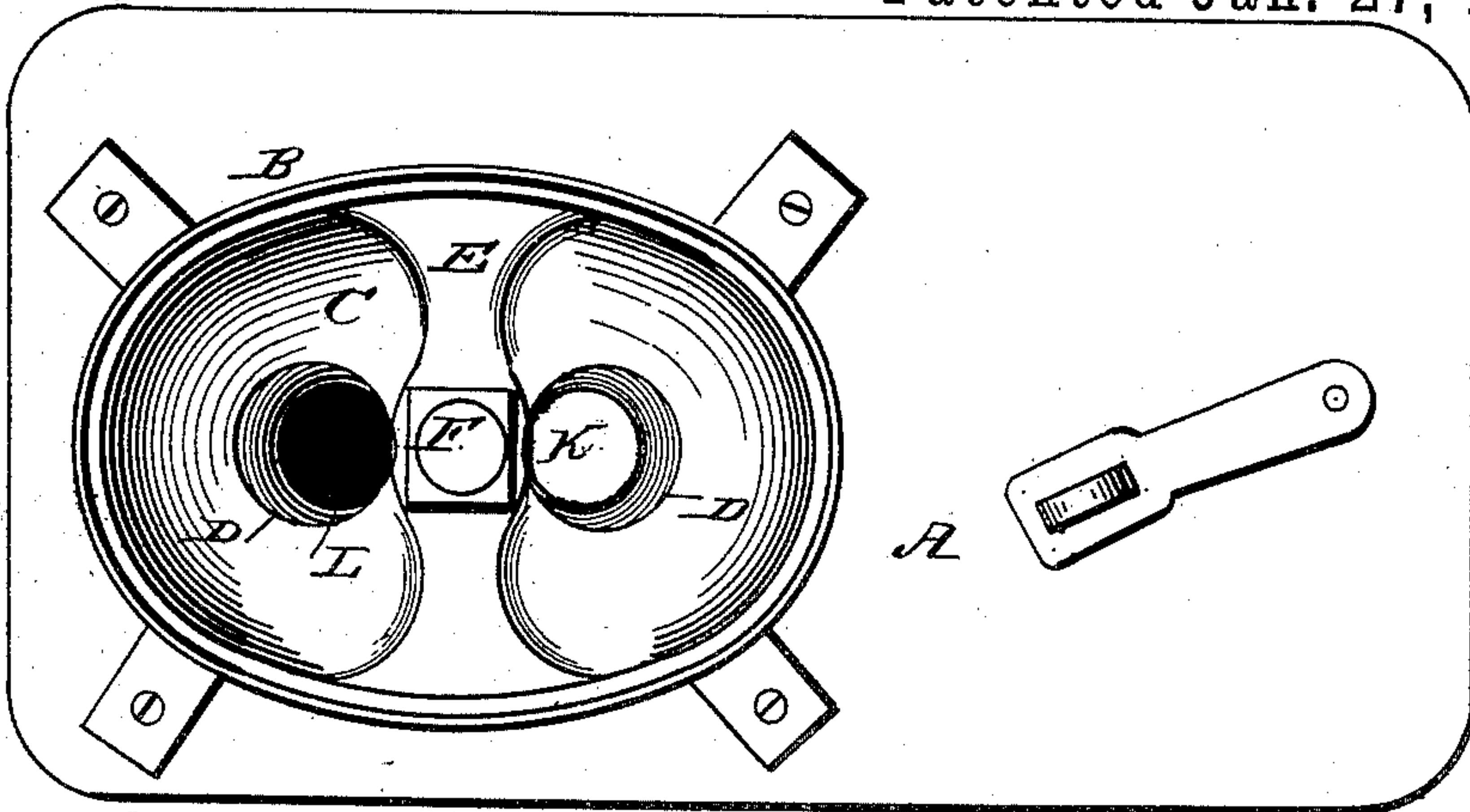


Fig. 2.

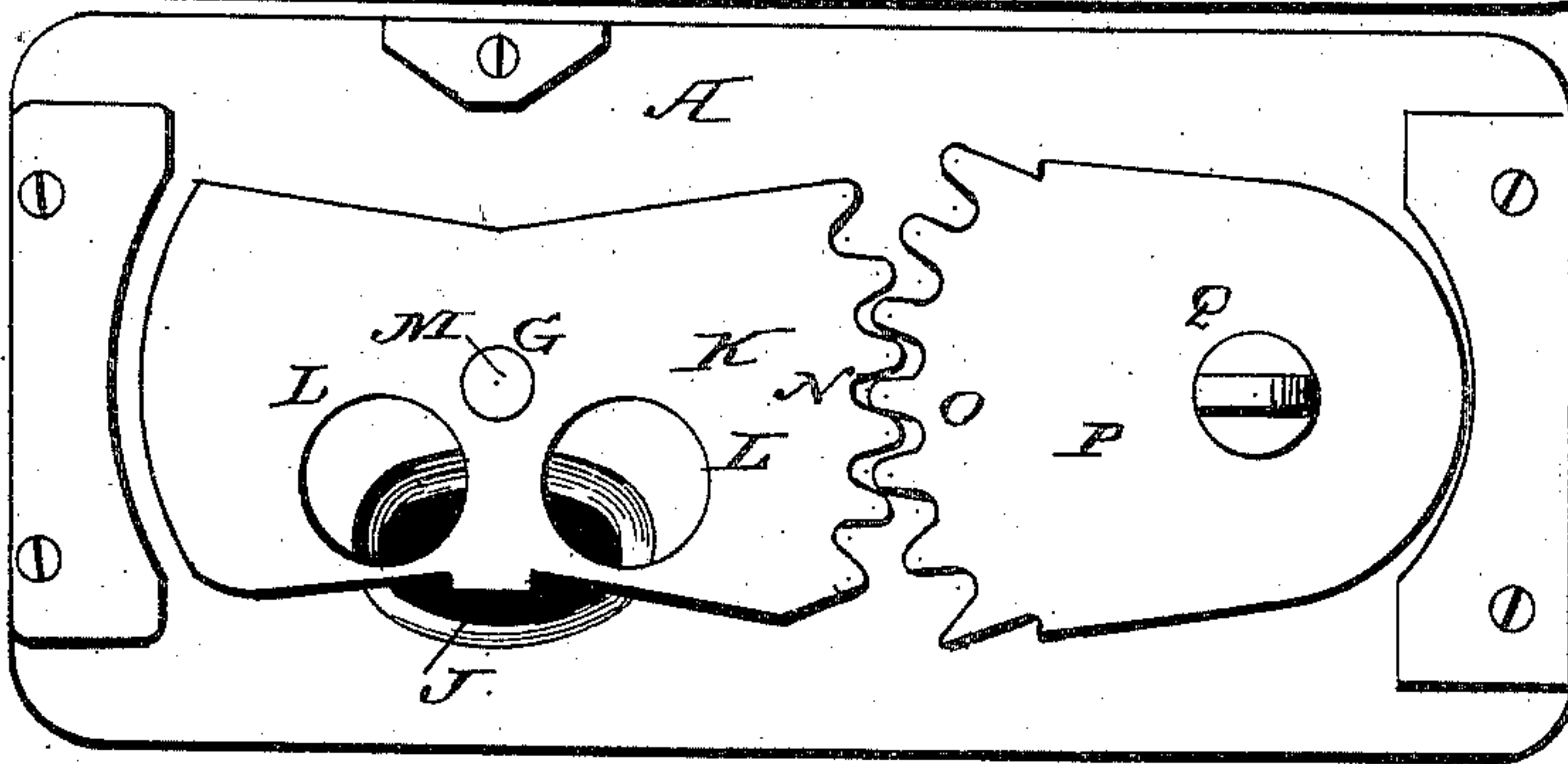


Fig. 4

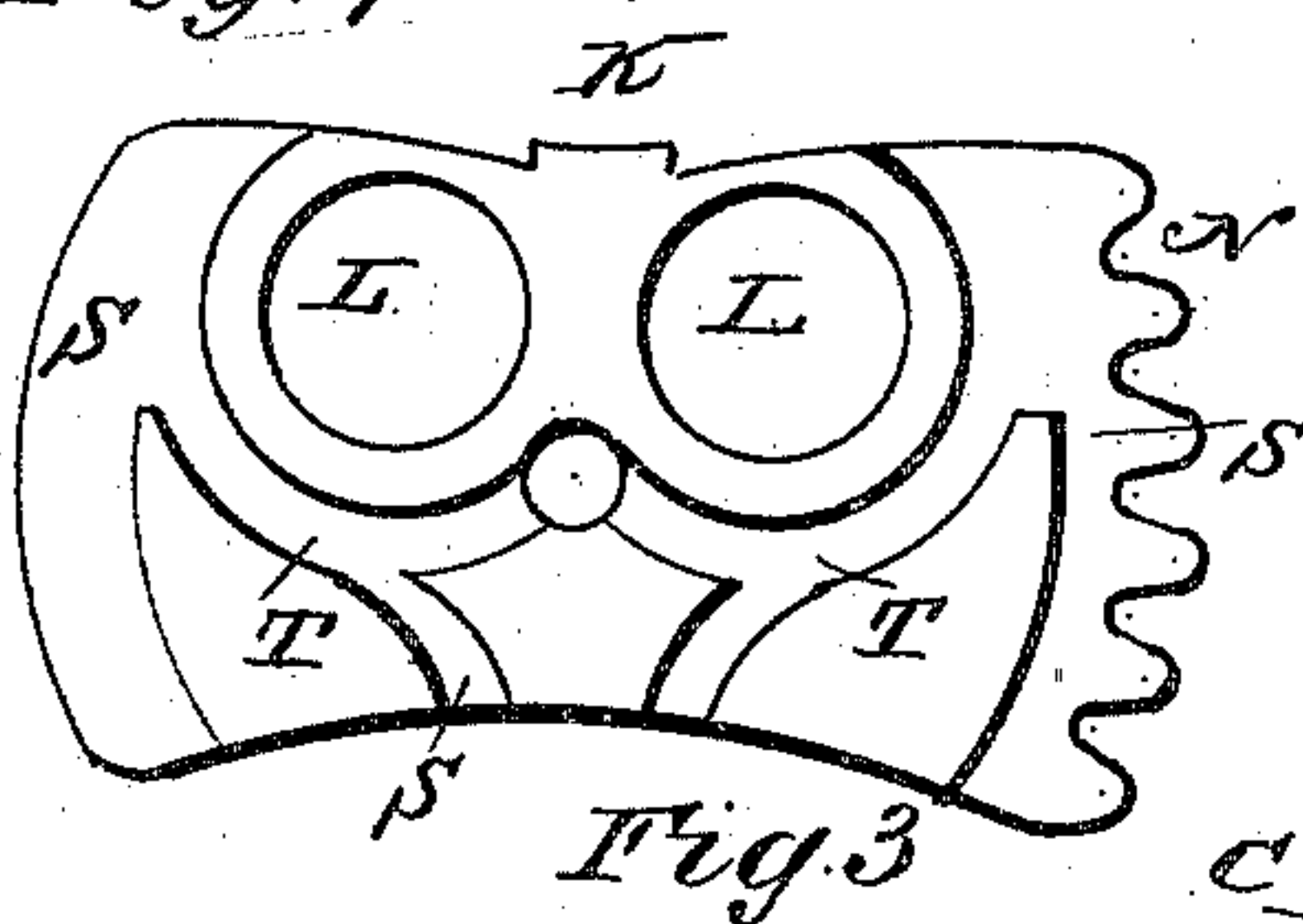
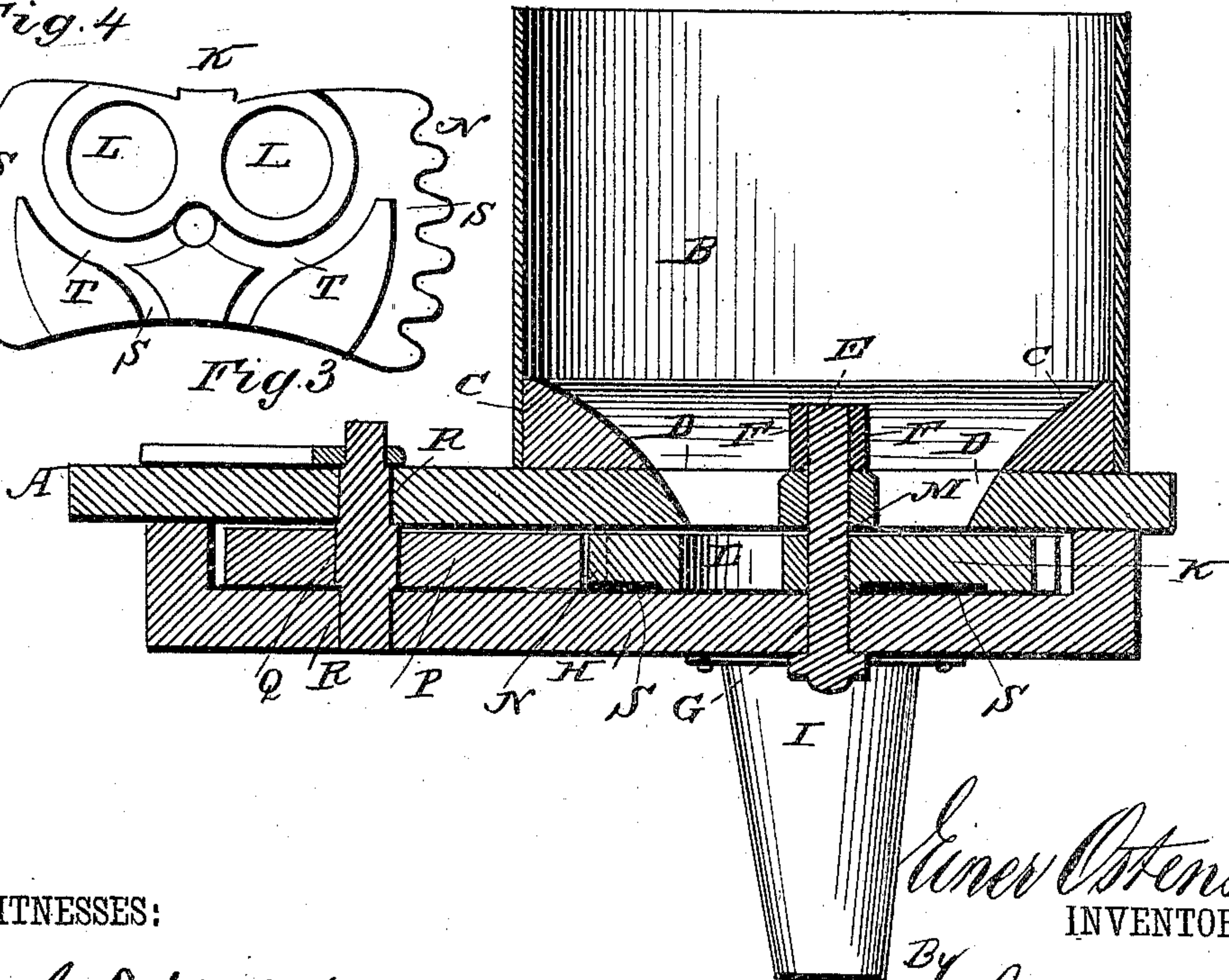


Fig. 3



WITNESSES:

Wm. L. Dietrich
Witness

Einer Ostensen
INVENTOR.

By Louis Bagger & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

EINER OSTENSEN, OF HIGHLANDVILLE, IOWA.

FERTILIZER-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 311,444, dated January 27, 1885.

Application filed July 7, 1884. (No model.)

To all whom it may concern:

Be it known that I, EINER OSTENSEN, a citizen of the United States, and a resident of Highlandville, in the county of Winneshiek and State of Iowa, have invented certain new and useful Improvements in Fertilizer-Distributers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a top view of a portion of the frame and the box of my improved fertilizer-distributer. Fig. 2 is a similar view of the distributing-slide and its operating mechanism. Fig. 3 is a vertical section on line *x x*, Fig. 1; and Fig. 4 is a bottom view of the fertilizer-slide.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to machines for distributing plaster or similar fertilizers; and it consists in the detailed construction and combination of parts of such a machine, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates a portion of the frame of a fertilizer-distributer, which may be mounted in any desirable manner, and B indicates a hopper for the reception of the fertilizing material, which is secured upon the said frame, and is provided with a concave bottom, C, having two perforations, D, separated by a raised partition, E, which is provided with a vertical bearing, F, registering with a similar bearing, G, in a board, H, secured under the frame, with a low space between it, and provided with a downwardly-projecting spout, I, extending from a perforation, J, in the said board, registering with the adjoining halves of the perforations in the bottom of the hopper. A distributing-slide, K, having two perforations or cups, L, registering with the perforations in the bottom of the hopper, is pivoted by a short shaft, M, passing through its middle, and turning in the bearings in the bottom of the hopper and in the board below it, and its end is provided with a cogged segment, N, which meshes with a segment, O, upon the edge of a cam, P, rocking upon a shaft, Q, which turns in vertical bearings R in the frame and in the board below it, and which is con-

nected in any suitable manner to the mechanism for rocking the said shaft and cogged cam. The under side of the distributing-slide is provided with annular channels S around the outer edges of the perforations or cups a short distance from the same, which channels connect with branch channels T, which open at the edge of the slide opposite to the edge near which the perforations or cups are, and it will be seen that as the cogged cam is rocked the slide is rocked, bringing the perforations in the bottom of the hopper, and thereupon alternately to register with the perforation in the board leading into the spout, thus causing the fertilizer to fall into the cups and alternately be discharged into the spout; and it will also be seen that the fertilizing material, which will collect upon the upper side of the board under the frame and underneath the slide, will be conveyed off by the channels in the under side of the slide to the other edge of the lower board of the frame, and be dropped upon the surface of the ground, fertilizing the same and preventing the slide from becoming clogged.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination of the hopper having a concave bottom provided with two perforations, the board secured below the bottom of the hopper, and provided with an outlet-aperture and spout registering with the adjoining halves of the perforations in the bottom of the hopper, a slide pivoted to oscillate between the bottom of the hopper and the board, having two perforations registering with the perforations in the bottom of the hopper, having channels upon its under side, as described, and having one end provided with a cogged segment, and a cogged cam adapted to be rocked or oscillated by any suitable connections, as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

EINER ^{his} × OSTENSEN.
mark.

Witnesses:

R. F. GIBSON,
L. O. BREKKE.