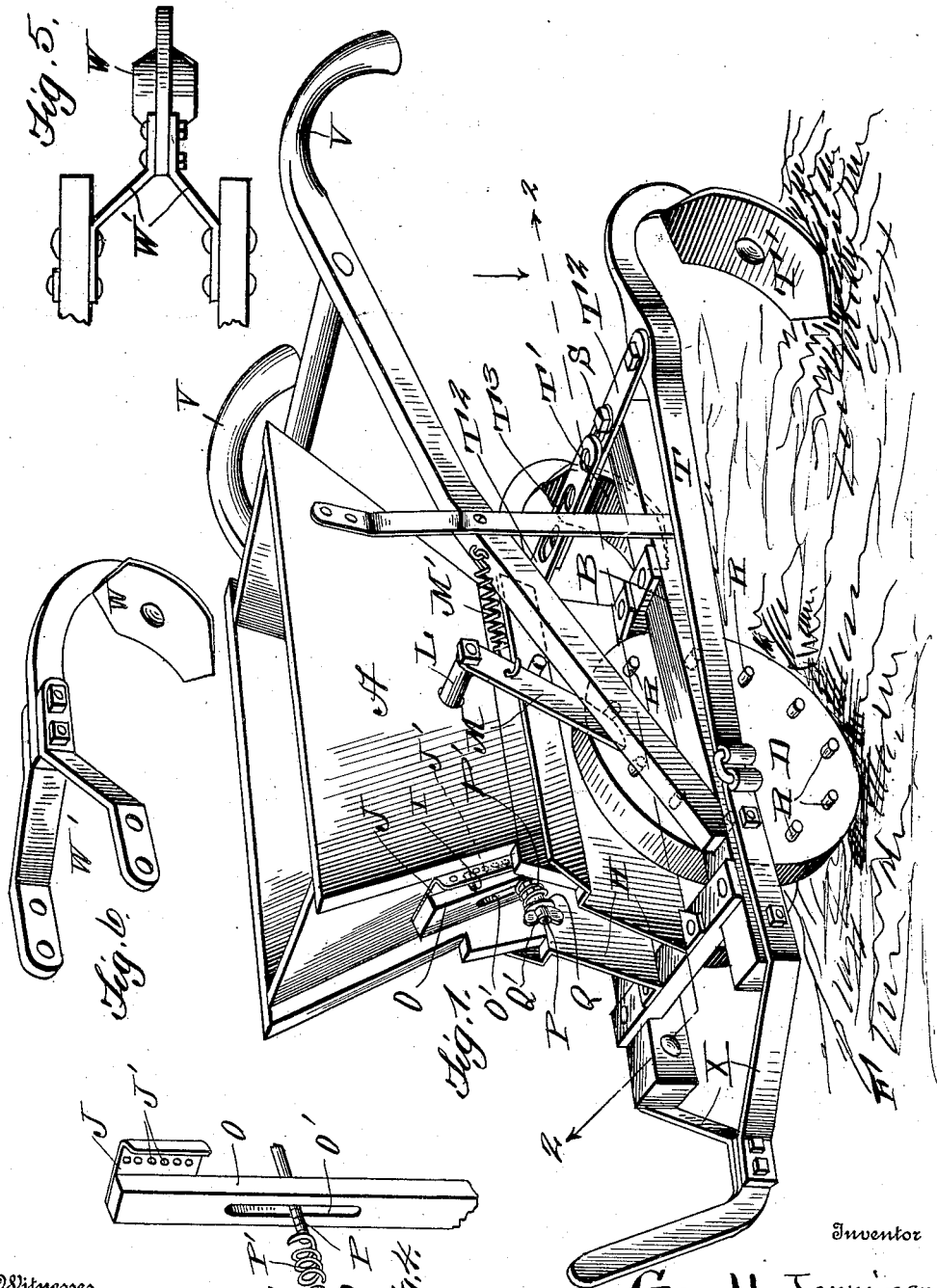


No. 888,812.

PATENTED MAY 26, 1908.

G. H. JERNIGAN.
GUANO DISTRIBUTER.
APPLICATION FILED MAR. 18, 1908.

2 SHEETS—SHEET 1.



Witnesses
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2 SHEETS—SHEET 2.

Fig. 7.

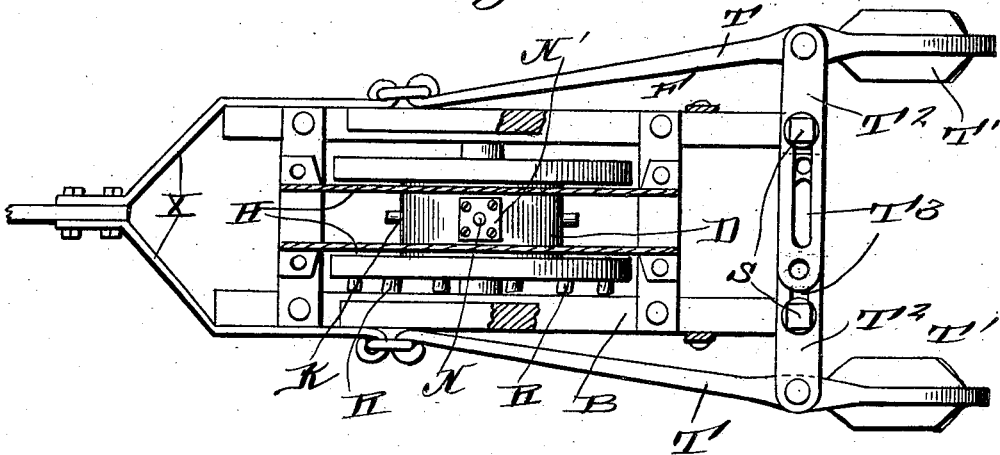
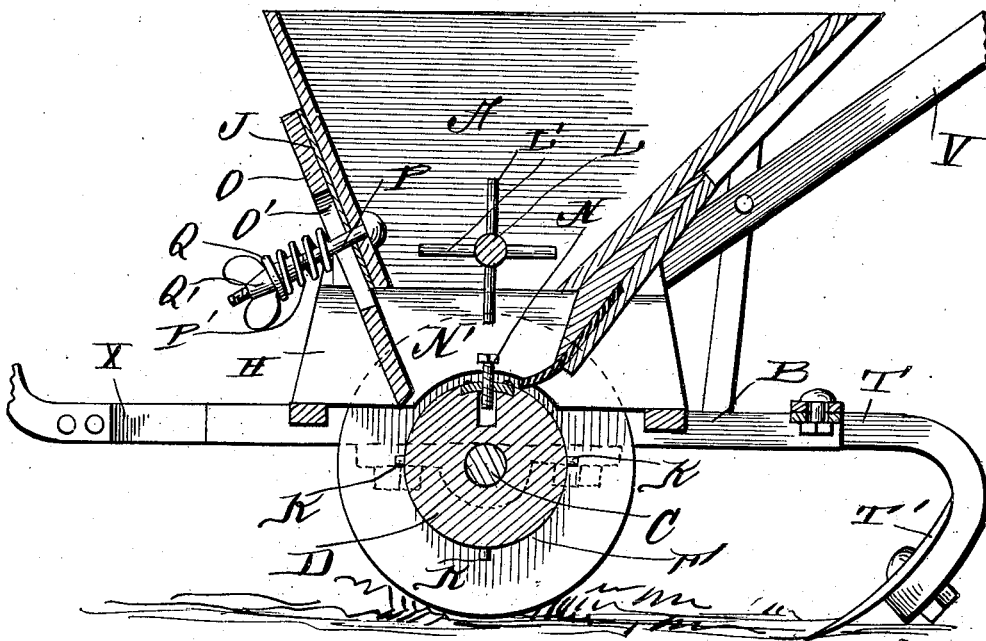


Fig. 3.



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UNITED STATES PATENT OFFICE.

GEORGE H. JERNIGAN, OF MINGO, NORTH CAROLINA.

GUANO-DISTRIBUTER.

No. 888,812.

Specification of Letters Patent.

Patented May 26, 1908.

Application filed March 18, 1908. Serial No. 421,925.

To all whom it may concern:

Be it known that I, GEORGE H. JERNIGAN, a citizen of the United States, residing at Mingo, in the county of Sampson and State of North Carolina, have invented certain new and useful Improvements in Guano-Distributers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in guano distributers and the object in view is to produce a simple and efficient apparatus of this nature, so constructed that the guano may be effectually distributed, and comprises various details of construction, combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claims.

My invention is illustrated in the accompanying drawings, in which:—

Figure 1 is a perspective view of my improved guano distributer. Fig. 2 is a sectional view taken on line 2—2 of Fig. 1. Fig. 3 is a central vertical sectional view through the apparatus. Fig. 4 is a detail view of the adjusting slide, and Fig. 5 is a detail view showing the manner of attaching a scraper to distribute the guano. Fig. 6 is a detail view of a plow or scraper.

Reference now being had to the details of the drawings by letter, A designates a hopper, and B a frame supporting the same. C designates a shaft or axle which is journaled in suitable bearings in said frame and to which wheels D are fixed having a central groove or channel F. Fastened to the opposite end face of the hopper are the plates H which extend downward into said groove of the wheel and adapted to guide the guano into the groove. Projecting from the circumference of the grooved portion of the wheel are the lugs K, adapted to loosen the guano from the bottom of the mass within the hopper. Said lugs K may be positioned at any suitable location upon the circumference of the grooved portion of the wheel, and N designates an adjustable screw mounted in a plate N' seated in the face of the grooved portion of the wheel. Said

screw N, which preferably has a flattened end, is adapted to be screwed into or out of the opening in the plate in which it is mounted in order to project at different distances beyond the circumference of the wheel.

Upon reference to Fig. 3 of the drawings, it will be seen that a slide O is mounted over the opening in the front wall of the hopper adjacent to its lower end. Said slide O has an elongated slot O' therein through which a bolt P passes, and P' designates a coiled spring which is mounted upon said bolt P and serves as a washer forming a yielding means between the slide and a washer or disk Q also mounted upon the same bolt. A winged nut Q' is mounted upon the bolt P and is adapted to regulate the tension of said spring. Said slide is adapted to have a longitudinal movement in order to regulate the amount of guano being distributed and is designed to be so positioned that the projecting end of the adjustable screw N may strike the same at each revolution of the wheel, which will cause the slide to swing slightly outward and then be returned to its normal position by means of said spring. This provision is for the purpose of preventing the clogging up of the guano intermediate the lower end of the slide and the surface of the grooved portion of the wheel. Projecting from the outer surface of the end wall of the hopper is a pin I, and J designates a plate having perforations J' therein for the reception of said pin, in order to hold the slide to which the plate is secured in an adjusted position.

Mounted upon the stirrer shaft L, which is journaled in the walls of the hopper, are the fingers L', and R designates pins projecting from one face of the wheel and against which a link or arm M, which is fixed to the stirrer shaft, is adapted to contact to cause the stirrer shaft to rock. A spring M' is fixed at one end to the arm M and at the other end to the hopper and serves to quickly return the rock shaft after being given a partial rotary movement by one of the pins upon the wheel.

Pivotaly connected to the opposite sides of the frame of the guano distributer are the angle bars T, having scrapers or plows T' secured thereto, and lateral projecting arms T² upon said bars are provided with elongated slots T³ through which the bolts S carried by the scrapers or plows may be held in different

positions. When it is desired to dispense with the scrapers or plows, they may be removed from the frame and a scraper or plow W, shown in Fig. 5 of the drawings, may be mounted upon the bracket arms W' which are fixed to the frame of the apparatus as shown. When the scraper is adjusted as shown in Fig. 5 of the drawings, it may be utilized for spreading the guano which falls from the hopper in a row.

Suitable handles V are fastened to the frame and to the brace rods of the frame of the apparatus, and to the forward ends of the frame are the bars X to which a whiffle tree or evener may be adjustably held.

From the foregoing, it will be noted that, by the provision of a fertilizer distributor as shown and described, a simple and efficient means is afforded whereby the feeding of the fertilizer may be easily regulated and evenly distributed, means being afforded for effectually stirring the fertilizer and preventing the clogging of the same as it is fed from the hopper.

What I claim to be new is:—

1. A fertilizer distributor comprising a frame, a wheel journaled therein and provided with a circumferential groove, a hopper mounted upon the frame, plates secured to said hopper and extending into said groove, a yielding adjustable slide mounted adjacent to an opening in the wall of the hopper, a screw mounted in the groove of the wheel and hopper to contact with the end of said slide, causing the same to yield, a spring for returning the slide to its normal position, a pin projecting from the hopper, and means carried by the slide for engagement with said

pin to hold the slide in an adjusted position, as set forth.

2. A fertilizer distributor comprising a frame, a wheel journaled therein and provided with a circumferential groove, a hopper mounted upon the frame, plates secured to said hopper and extending into said groove, a yielding adjustable slide mounted adjacent to an opening in the wall of the hopper, an adjustable screw mounted in the groove of the wheel and hopper to contact with the end of said slide, causing the same to yield, a spring for returning the slide to its normal position, a pin projecting from the hopper, a plate secured to said slide and provided with perforations adapted to receive said pin to hold the slide in an adjusted position, as set forth.

3. A fertilizer distributor comprising a frame, a wheel having a grooved circumference journaled in said frame, a hopper supported upon the frame, plates fixed to said hopper and projecting into said groove, portions of the side walls of the hopper projecting beyond the front end thereof, a bolt projecting from the end of the hopper, a coiled spring mounted upon said bolt, a nut upon the latter, a slide having an elongated slot through which said bolt passes, and means for holding the slide in an adjusted position to regulate the feeding of the fertilizer, as set forth.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

GEORGE H. JERNIGAN.

Witnesses:

A. L. HOUGH,
FRANKLIN H. HOUGH.