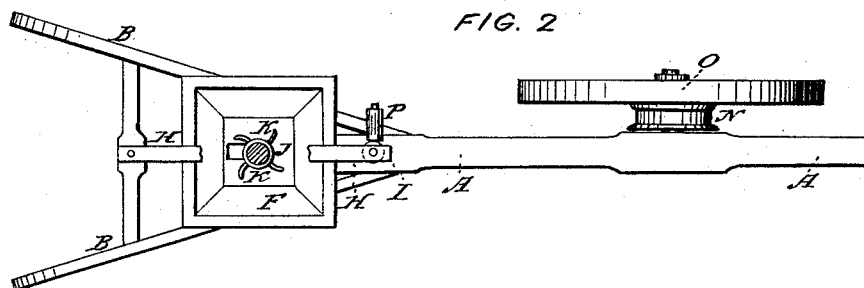
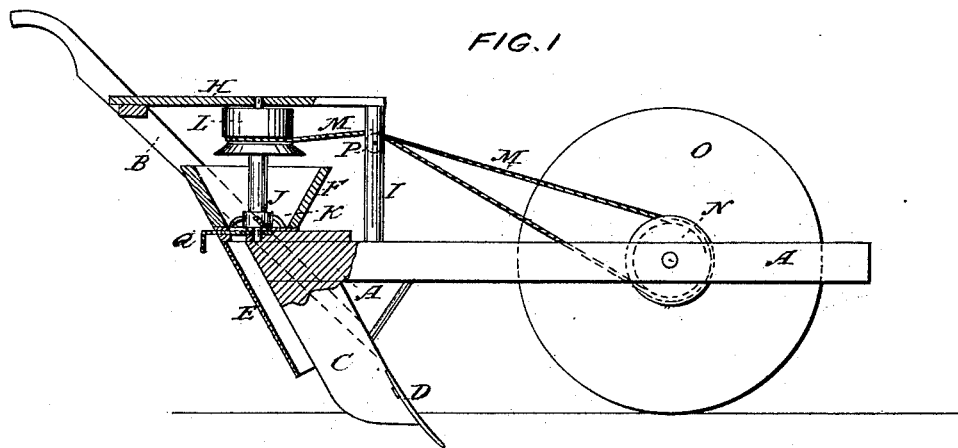


W. L. TRAYUHAM.  
Planter and Fertilizer.

No. 108,213.

Patented Oct. 11, 1870.



WITNESSES:

A. Burness  
Alex. T. Roberts

INVENTOR:

W. L. Trayuham

*W. L. Trayuham*

# United States Patent Office.

WILLIAM L. TRAYUHAM, OF WARRENTON, GEORGIA.

Letters Patent No. 108,213, dated October 11, 1870.

## IMPROVEMENT IN SEED-PLANTERS AND GUANO-DISTRIBUTERS.

The Schedule referred to in these Letters Patent and making part of the same

*To all whom it may concern:*

Be it known that I, WILLIAM L. TRAYUHAM, of Warrenton, in the county of Warren and State of Georgia, have invented a new and useful Improvement in Seed-Planters and Guano-Distributers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

Figure 1 is a side view of my improved machine, part being broken away, to show the construction.

Figure 2 is a top view of the same, part being broken away to show the construction.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish a simple, convenient, and effective machine for planting seeds and distributing guano and other fine fertilizers, which shall be so constructed as to adapt it for attachment to an ordinary plow; and

It consists in the construction and combination of the various parts of the machine, as hereinafter more fully described.

A is the beam, B are the handles, C is the standard, and D is the plow of an ordinary plow, about the construction of which parts there is nothing new.

E is the conductor-spout, which is attached to the rear side of the standard C and the rear end of the beam A, so that its upper end may be flush with the upper side of the beam A.

F is the hopper, the bottom of which is extended in front, for convenience in attaching the said hopper to the beam A. The hopper F is attached to the beam A in such a way that it may project in the rear sufficiently for the discharge-opening in its bottom to be directly over the open upper end of the conductor-spout F.

G is a vertical shaft, the lower end or journal of which revolves in bearings in the center of the bottom of the hopper F, and its upper end or journal revolves in bearings in the bar H, the rear end of which is attached to the cross-bar or round of the handles B, and the forward end of which is attached

to the upper end of the standard I, the lower end of which is attached to the beam A at a little distance in front of the hopper F.

To the lower part of the shaft G is attached a band or hub, J, provided with four, more or less, fingers, K, which are curved in such a way that, when the shaft G is revolved by the advance of the machine, the said fingers may keep the contents of the lower part of the hopper stirred up, and, at the same time, feed them toward the discharge-opening in the bottom of said hopper.

To the upper end of the vertical shaft G is attached a pulley, L, which has a flange formed around its lower end, and around which passes the belt M, which also passes around the pulley N, attached to or connected with the drive-wheel O, which is pivoted to the side of the forward part of the frame A.

The belt M is guided and kept in proper position in its passage from the horizontal to the vertical pulley by the small guide-roller P, pivoted to the side of the standard I, as shown in figs. 1 and 2.

The drive-wheel O is made of such a size that it may roll along and receive motion from the surface of the ground as the machine is drawn forward.

Q is a small plate, placed in a recess in the bottom of the hopper F, and pivoted to the lower journal of the vertical shaft G, so that it may be moved forward when passing obstructions, turning around, or passing from place to place, to close the discharge-opening through the bottom of the hopper, and thus prevent the waste of the seed or fertilizer.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The combination of the conductor-spout E, hopper F, vertical shaft G, stirrer J K, pulley L, band M, pulley N, and drive-wheel O, with each other and with the beam, standard, and handles of an ordinary plow, substantially as herein shown and described, and for the purpose set forth.

WILLIAM L. TRAYUHAM.

Witnesses:

W. G. SCRUGGS,  
S. H. FOWLER.