(No Model.)

W. W. TURNIPSEED.

FERTILIZER DISTRIBUTER.

No. 388,511. Patented Aug. 28, 1888.

Fig. 1.

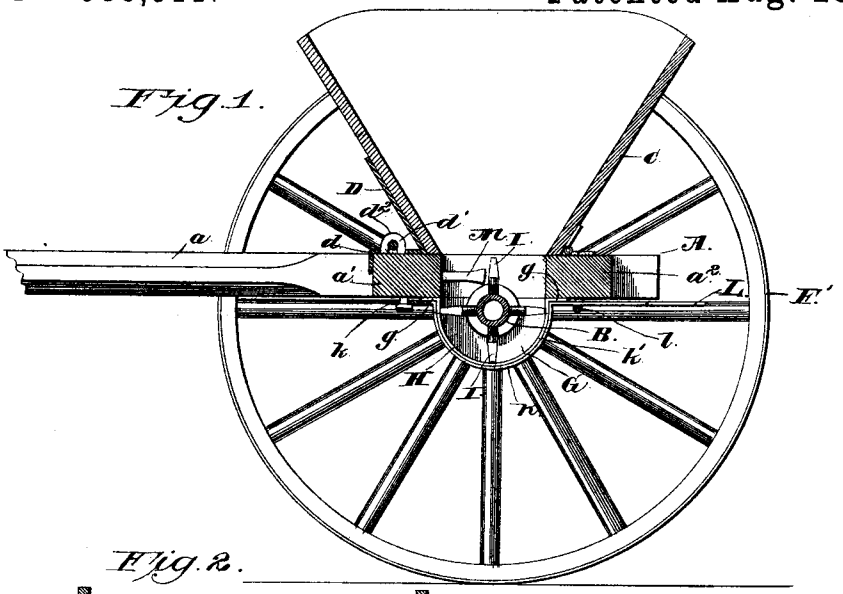


Fig. 2.

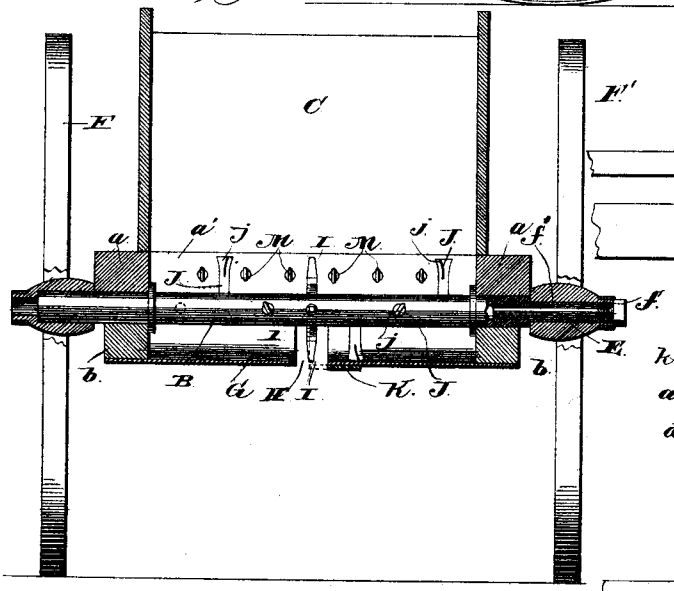


Fig. 3.

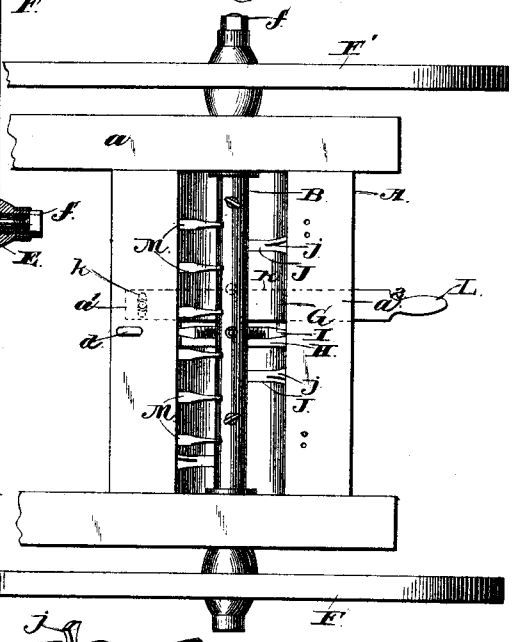
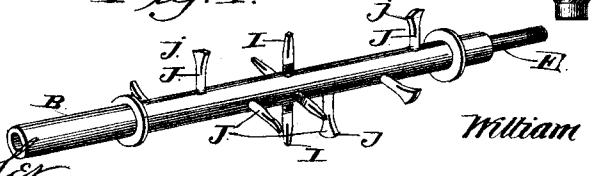


Fig. 4.



Witnesses,
E. G. Siggers.

Inventor,
William W. Turnipseed,
By his Attorneys
C. A. Snow & Co.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM WESLEY TURNIPSEED, OF HAMPTON, GEORGIA.

FERTILIZER-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 388,511, dated August 28, 1888.

Application filed April 9, 1888. Serial No. 270,014. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WESLEY TURNIPSEED, a citizen of the United States, residing at Hampton, in the county of Henry and State of Georgia, have invented a new and useful Improvement in Fertilizer-Distributers, of which the following is a specification.

The invention relates to improvements in wheeled fertilizer-distributers; and it consists in the construction and novel combination of parts, hereinafter described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a central vertical longitudinal section of a machine embodying the invention. Fig. 2 is a vertical transverse section thereof passing diametrically through the axle. Fig. 3 is a plan view of the machine, the hopper removed. Fig. 4 is a perspective view of the axle and attachments disconnected from the machine.

Referring to the drawings by letter, A designates the frame of the machine, composed of the shafts *a a* and the cross-beams a' a^2, connecting the rear portions of the shafts, and situated at equal distances, respectively, in front and in rear of the axle B, which has bearings in semicircular blocks *b b* depending from the shafts, the straight edges of said blocks being secured to the shafts and filling up the space between the facing edges of the beams a' a^2.

C is the hopper having vertical ends and upwardly-diverging sides. The said hopper has its rear lower edge hinged to the upper surface of the cross-beam a^2 and its front lower edge resting on the upper surface of the cross-beam a'. The hopper is held in place by the slot in the horizontal arm *d* of the metal strap D, secured to the front of the hopper, the staple d', secured to the beam a' and entering said slot, and the pin d^2, passing into the staple above said arm.

The axle B is a metal tube having secured in one end, preferably the right end, the solid metal journal E, having its end portion threaded.

F F′ are the wheels, the former of which is secured upon the left end of the hollow axle, and turns the same, while the latter turns on the journal E, secured in the right end of the said axle, and is retained thereon by the nut *f*, engaged on the threaded end of the journal. The said journal turns in a metal sleeve, *f′*, secured within the bore of the wheel F′.

G is a semi-cylindrical trough, preferably of sheet metal, having its ends secured to the semicircular edges of the bearing-blocks *b*, and the flanges *g* on its side edges secured to the under surfaces of the cross-beams a' a^2, the inner surface of the said trough being flush with the facing edges of said beams. The trough is provided with the central transverse slot, H, extending entirely across the same, through which slot passes the ends of the four equidistant radial distributer-arms I, threaded on their inner ends, and having the said ends engaged in threaded openings in the axle.

J J are conveyer or feeding arms standing out radially from the axle on each side of the distributer-arms. The conveyer-arms have their inner ends threaded to engage in threaded openings in the axle, and they are arranged spirally around the axle. The outer ends, *j*, of said conveyer-arms are flattened, and are inclined in the proper direction to convey the fertilizer fed to said arms through the open lower end of the hopper into the trough toward the distributer-arms, which throw it through the central slot in the trough.

K is a metal strap pivoted at its front end through its slot *k* upon the under surface of the beam a', and provided with the semicircular bend k', that rests upon the outer side of the trough G, adjacent to the slot H. The rear end of said strap forms a handle, L, passing through the limiting and retaining staple *l*. By means of said handle and the slotted pivoted front end the strap may be made to cover the slot H and prevent the discharge of the contained fertilizer.

By having the wheel F′ to turn loosely on the axle the machine may be turned on the wheel F without rotating the axle, so that no fertilizer will be discharged. The conveyer or feeding arms J have their widened ends inclined, the inclination of those on one side of the slot H being reverse to the inclination of those of the opposite side thereof. By means of the said inclined ends the arms J feed the fertilizer toward the discharge-slot H, and the

straight arms M, projecting horizontally rearward from the beam *a'*, prevent the same from being thrown upward from the trough G.

The strap K can be moved laterally in such manner as to cover more or less of the slot H and permit more or less of the fertilizer to feed out of said slot.

Having described my invention, I claim—

In a fertilizer-distributer, the combination, with the hopper, the wheels F F', and the frame composed of the shafts and cross-beams, of the hollow axle turning in the semicircular blocks *b*, and having the wheel F, fixed on its left end, and the solid journal E, secured in the right end of said axle, and the nut *f*, retaining the wheel F' on said journal, on which the said wheel turns loosely, substantially as specified.

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

WILLIAM WESLEY TURNIPSEED.

Witnesses:
J. D. TURNIPSEED,
A. R. MARTIN.