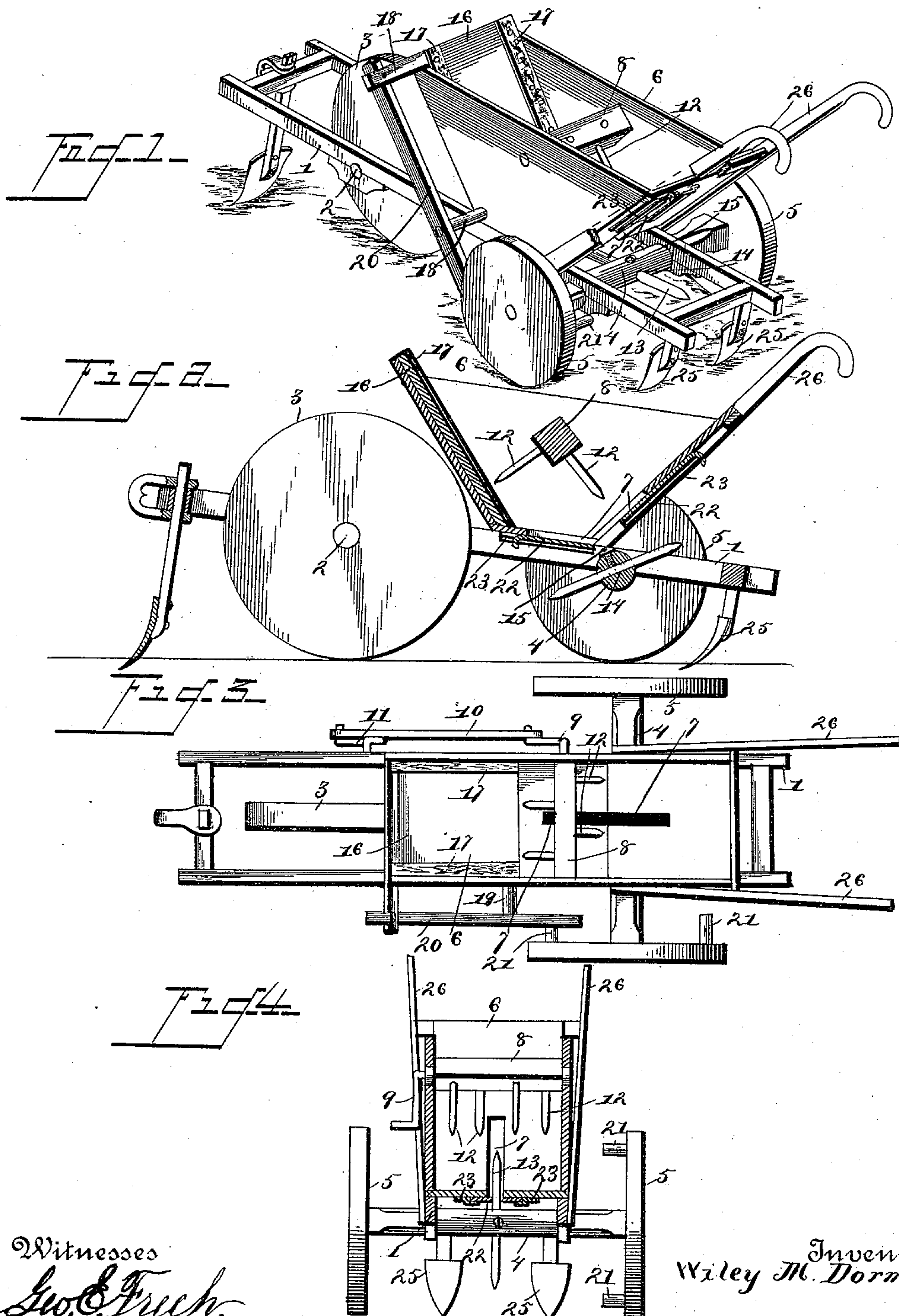


(No Model.)

W. M. DORMON.  
FERTILIZER DISTRIBUTER.

No. 430,248.

Patented June 17, 1890.



Witnesses  
*Geo. C. French.*  
*J. V. Siggers,*

Inventor  
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By *his* Attorneys

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# UNITED STATES PATENT OFFICE.

WILEY M. DORMON, OF SALINE, LOUISIANA.

## FERTILIZER-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 430,248, dated June 17, 1890.

Application filed February 28, 1890. Serial No. 342,121. (No model.)

*To all whom it may concern:*

Be it known that I, WILEY M. DORMON, a citizen of the United States, residing at Saline, in the parish of Bienville and State of Louisiana, have invented a new and useful Fertilizer-Distributor, of which the following is a specification.

This invention relates to fertilizer-distributers; and it has for its object to provide a machine of this class which shall be simple in construction, durable, and effective in operation.

The invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a perspective view. Fig. 2 is a longitudinal vertical sectional view. Fig. 3 is a plan view. Fig. 4 is a vertical transverse sectional view taken on the line *x x* in Fig. 2.

Like numerals of reference indicate like parts in all the figures.

The frame 1 of my improved machine is preferably rectangular in shape and is provided near its front end with boxes or bearings for a transverse revolving shaft or axle 2, carrying the operating-wheel 3. Near the rear end of the frame bearings are provided for the main axle 4, having the supporting-wheels 5, which are mounted rigidly upon the axle.

6 designates the hopper, which is mounted upon the frame in front of the rear axle, and the bottom and rear side of which are provided with a continuous slot 7. Journaled transversely in the sides of the hopper is a rock-shaft 8, one end of which is provided with a crank 9, connected by a pitman 10 with a crank 11 at one end of the shaft 2, from which an oscillating motion may in this manner be imparted to the rock-shaft 8. The latter is provided with downwardly-extending fingers or agitators 12. The rear axle 4 is provided with radially-extending pins 13, which extend through the slot 7 in the bottom and rear side of the hopper, and which serve in operation to force the contents of the hopper out through the said slots. The said fingers consist of a single bar extending trans-

versely through a slot 14 in the axle and secured in position by means of a set-screw 15.

16 designates a flat board, which is hinged to the bottom of the hopper at the front edge of the latter, and which extends upwardly, the position normally occupied by said board being flat against the front side of the hopper. The side and bottom edges of said hinged board are connected with the sides and bottom of the hopper by means of strips 17 of flexible material, which, while they will permit the board 16 to oscillate freely upon its hinges, will prevent any of the contents of the hopper from working past the said board and into the space between the latter and the front side of the hopper.

18 and 19 designate laterally-extending arms or brackets secured to the upper and lower ends of the oscillating board 16, and the latter of which extends through the side of the hopper. The outer ends of said arms are connected by a bar 20, which is extended downwardly into the path of pins 21, which are secured to the inner side of and extend laterally from one of the supporting-wheels. It will be seen that when the latter revolves it will engage the lower end of the bar or lever 20 and impart an oscillating movement to the board 16. The bottom and rear side of the hopper are provided with sides 22, adjustable in flanges 23, and by means of which the size of the slot or opening 7 may be regulated, or the said slot may be entirely closed.

The front end of the frame of the machine is provided with a vertical standard, to the upper end of which a clevis may be attached and the lower end of which may carry a furrow-opener of ordinary construction. Suitable covering-plows 25 may also be attached to the rear corners of the frame, such plows being found preferable to the drags or scrapers usually employed. Handles 26, by means of which the machine may be guided, are also attached to the frame and to the rear side of the hopper.

The operation of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The material to be distributed is placed in the hopper and the machine is then drawn over the ground. The



oscillating board 16 will constantly throw the contents of the hopper in a rearward direction in the same, and the fingers or agitators upon the rock-shaft 8 will assist in keeping  
5 the contents of the hopper loose. The fingers extending radially from the revolving axle will remove the contents of the hopper through the slot 7 and deposit it upon the ground at regular intervals and in quantities  
10 which may be regulated by the size of the slot 7.

The machine will also be found exceedingly useful for planting cotton-seed, as will be readily understood.

15 The device is simple in construction and is not liable to get out of order, and it may be manufactured at a small expense.

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

20 1. The combination of the hopper having the slotted bottom, the rock-shaft having stirrers or agitators, the revolving axle having the radially-extending fingers, the oscillating board hinged to the bottom of the hopper, and  
25 suitable operating mechanism, substantially as set forth.

30 2. The combination of the frame, the revolving axle having the supporting-wheels, the hopper, the oscillating board hinged in the bottom of said hopper and having laterally-extending arms, the bar connecting the

said arms, and the pins extending laterally from one of the supporting-wheels and adapted to engage the said bar, substantially as set forth.

35 3. The combination, with the hopper having the slotted bottom and rear side, and slides to regulate the size of said slots, of the revolving axle having a transverse slot, the fingers extending through said slot and held  
40 adjustably therein by a set-screw, the rock-shaft mounted transversely in the hopper and having fingers or agitators, the oscillating board hinged to the bottom of the hopper and having laterally-extending arms connected  
45 by a downwardly-extending bar, the supporting-wheels, one of which is provided with pins to engage the said bar, the operating-wheel mounted upon a revolving axle near  
50 the front end of the frame, a pitman connecting a crank at the end of said axle with a crank upon the end of the rock-shaft in the hopper, and a furrow-opener and covering-plows, substantially as and for the purpose  
55 set forth.

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

WILEY M. DORMON.

Witnesses:

JNO. C. THEIRS,  
BEN P. EDWARDS.