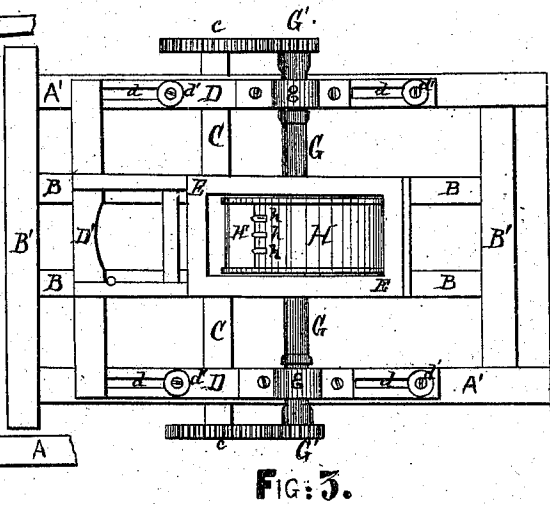
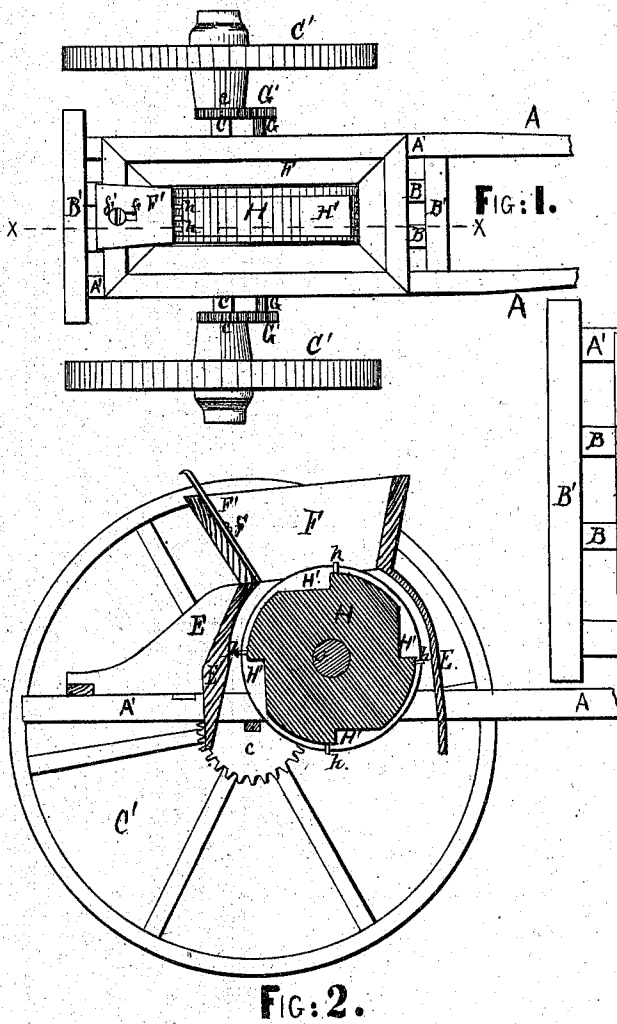


T. L. COTTEN.

Fertilizer.

No. 106,125.

Patented Aug. 9, 1870.



WITNESSES.

Edwin James.

Alfred Holmes & Co. Jr.

INVENTOR.

Thomas L. Cotten.

per J. E. T. Holmead
Attorney.

United States Patent Office.

THOMAS L. COTTEN, OF MADISON COUNTY, MISSISSIPPI, ASSIGNOR TO
MARTHA J. COTTEN, OF SAME PLACE.

Letters Patent No. 106,125, dated August 9, 1870.

IMPROVEMENT IN MANURE-CARTS.

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, THOMAS L. COTTEN, of the county of Madison and State of Mississippi, have invented certain new and useful Improvements in Manuring-Carts and Fertilizer-Distributor; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon, making part of this specification, in which—

Figure 1 is a top plan view.

Figure 2 is a longitudinal sectional view on the line *x x*, fig. 1.

Figure 3 is a top plan view, the hopper being removed.

The object of my invention is to furnish a cart that will deposit with great regularity and accuracy in the drill all fine or pulverized manure, especially the cotton-seed, which article, as is well known, is now extensively used as a fertilizer.

The nature of my invention consists in securing on an axle-shaft that passes through a boxing or frame in which the hopper is seated, a feed-wheel. This wheel is provided with pockets, and retaining teeth or pins, so arranged as to deposit in the drill, with the utmost regularity, and at the desired intervals, the cotton-seed or other fine or pulverized manure. The axle-shaft of the feed-wheel is provided with pinion-wheels, which, when desired, are thrown in gear with the ratchet-teeth on the inner face of the hubs, so that the revolution of the wheels of the cart can be made at pleasure to impart a like motion to the feed or manure-wheel.

My cart is also so constructed that the frame, in which is seated the box that supports the hopper and in which works the axle-shaft of the feed-wheel, shall be adjustable in a horizontal direction, so that, when desired, the pinion-wheels can be moved to such position as to be entirely clear of the ratchet or gear-teeth on the hub, which enables the cart to be driven to any desired point without imparting the slightest motion to the feed-wheel, and, consequently, without dropping any of the manure.

To enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation.

A A are the shafts, which terminate in parallel bars or supports, A' A', and, with horizontal pieces B B and cross pieces B' B', form the rectangular frame that not only supports the main axle C, but also the entire mechanism.

This axle, which is of wrought iron, is not made in one continuous piece, but in two sections, C C. These sections are so attached to the rear bars A' A' of the shafts, and also to the horizontal pieces B B,

as to be firmly held, and, at the same time, leave the space between the pieces B B, in which the feed-wheel revolves, entirely unobstructed.

C' C' are the cart-wheels, and are provided with cast-iron hubs, having on their inner face ratchet-teeth *c c*. On the rear bars A' A' of the shafts rests an open frame, consisting of parallel bars D D and a cross-piece, D'.

The bars D D are slotted, as shown at *d d*, which renders the frame adjustable, it being retained at any desired point by means of the screw-bolts *d' d'*.

Attached to the cross-piece D' and resting on the horizontal pieces B B is the box or frame E.

The forward and rear ends E' E' of this box or frame pass down between the pieces B B, as shown in fig. 2, their inner faces being slightly curved, so as to leave a suitable passage for the discharge or deposit of the manure.

F is the hopper, and is seated in the frame E.

This hopper is constructed with an open mouth, through which the manure is discharged into the pockets of the feed-wheel, and a gauge-plate F'.

This plate F' is slotted, as shown at *f*, fig. 1, which enables it, by means of a screw, *f*, to be adjusted to any desired point, and, consequently, regulate at pleasure the feeding of the manure to the discharge-wheel.

G is an axle-arm that passes through the frame E, and rests and works in suitable bearings *g g* on the slotted horizontal bars D D.

On the ends of this axle-arm G are secured two pinion-wheels, G' G'. These pinion-wheels are so arranged that they can readily be thrown in gear with the ratchet-faces *c c* of the hub of the wheels C' C'.

On the axle-arm G is a feed-wheel, H.

This wheel H is provided with numerous pockets H' H' and small teeth or pins *h h*, the latter being placed at the base of the pockets. These pockets H' H' may be made detachable and of different lengths, so that the interval or distance at which the manure shall be deposited can be regulated at pleasure.

The operation is as follows:

By means of the slots *d d*, in the horizontal bars D D, the pinion-wheels G' G' can be caused to mesh with the ratchet-teeth *c c*, or moved to such position as to remain entirely free from all contact. In the former case the slightest movement of the cart causes a revolution of the shaft G, and, consequently, of the feed-wheel H, by which means the manure is conveyed from the hopper to the drill.

Having thus fully described my invention,

What I claim therein as new, and desire to secure by Letters Patent of the United States, is—

1. The wheel H, having pockets H' H' and pins *h h*, the shaft G and pinion-wheels G' G', when the

same are so arranged in combination with the ratchet-faced hubs *c c* of the wheels *C' C'*, that their revolution can be made to impart like motion to the wheel *H*, substantially as described, as and for the purpose specified.

2. The bars *D D*, when the same are provided with slots *d d*, so arranged as to allow a horizontal movement to the hopper and feed-mechanism, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOS. L. COTTEN.

Witnesses:

A. H. COTTEN,
J. G. NOBLES.