

W. C. BURNETT
LIME SPREADER.

No. 104,694.

Patented June 28, 1870.

Fig. 1.

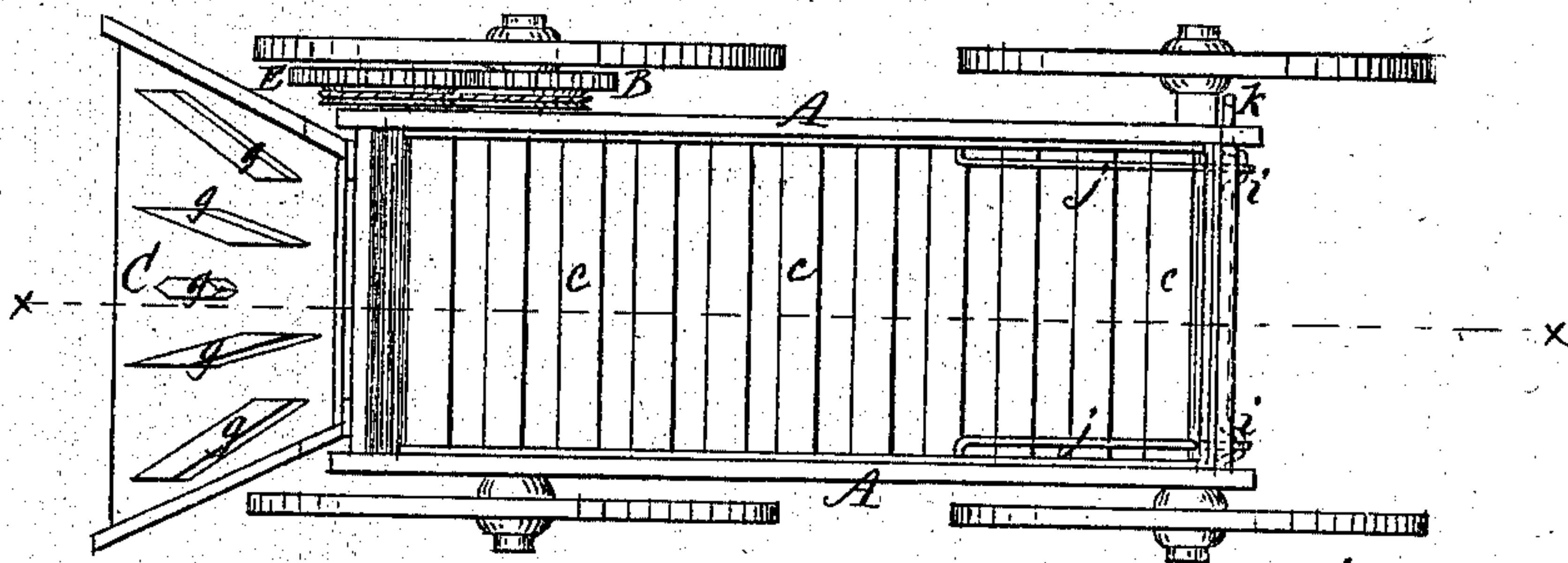
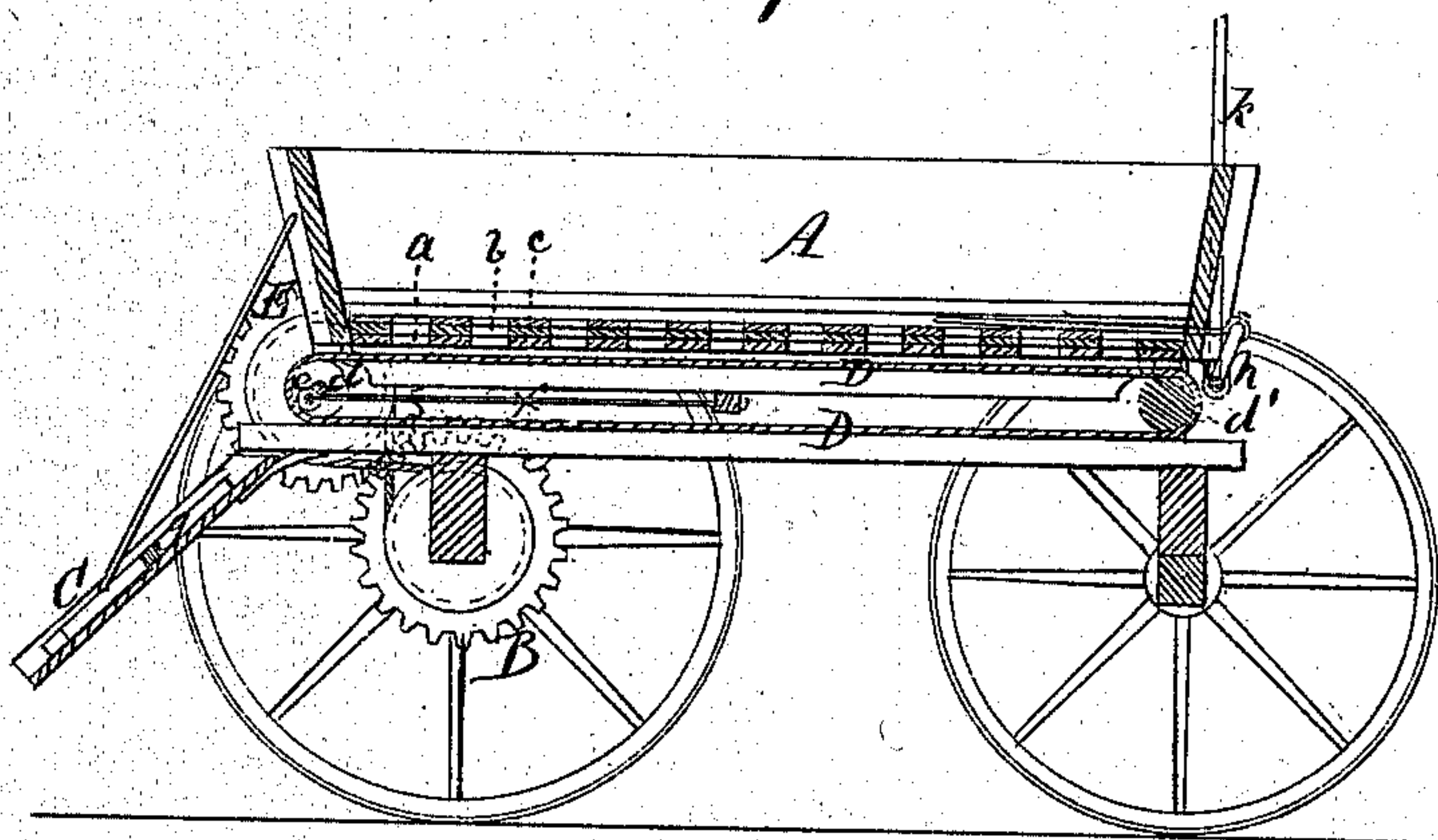


Fig. 2.



Witnesses.
G. C. Smith. }
E. R. Brown. }

W. C. Burnett

Inventor.

By J. C. Theaker
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United States Patent Office.

W. C. BURNETT, OF BURNS' MILLS, PENNSYLVANIA.

Letters Patent No. 104,694, dated June 28, 1870.

IMPROVEMENT IN LIME-SPREADER.

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, W. C. BURNETT, of Burns' Mills, in the county of Bedford and State of Pennsylvania, have invented a new and useful Improvement in Lime-Spreaders; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, in which—

Figure 1 is a plan view, and

Figure 2 is a longitudinal vertical section, taken in the line *x x*, of fig. 1.

Like letters designate like parts in all the figures.

The nature of my invention consists in the peculiar construction and operation of a wagon for spreading lime to be used as a fertilizer.

In the drawing—

A represents a wagon-body, which is mounted on four wheels.

The body has three bottoms, which are placed closely together, and all of them have transverse apertures or slots in them. The lower one, *a*, is a reciprocating bottom; the middle one, *b*, is stationary; and the upper one, *c*, is a sliding bottom.

On the hub of one of the rear wheels is a cog-wheel, B.

d d' are shafts, placed under the bottom of the ends of the wagon-body, on which an endless apron, D, revolves, the endless apron being under the bottom *a*.

On the shaft *d* is a cog-wheel, E, which meshes into the cog-wheel B.

In the middle of the shaft *d* is a crank, *e*, to which one end of a rod, *f*, is attached, and the other end is secured to the frame of the reciprocating bottom *a*.

At the rear end of the wagon is hinged an inclined distributing-chute, C, on the upper side of which are

several pieces, *g*, which are placed at various angles, to spread the lime out to the full width of the wagon.

At the front end of the wagon is a crank-shaft, *h*, with two cranks, *i i*, to which one end of each of the rods *j j* is attached, their other ends being secured to the frame of the sliding bottom *c*.

On one end of the crank-shaft *h* is a lever, *k*, for moving the sliding bottom *c*.

The operation of the machine is as follows:

The lime to be spread is placed in the wagon-body, and, as it moves forward, the cog-wheels B E cause the shafts *d d'* to revolve, and, with them, the endless apron D. At the same time the bottom *b* keeps up a reciprocating motion, thus preventing too great a quantity of lime from falling onto the apron through the apertures in the bottoms of the wagon. The top of the endless apron moves backward, thereby carrying the lime to the rear of the wagon, where it falls onto the inclined chute C, and is distributed over the ground.

The discharge of the lime from the wagon can be prevented by closing the apertures in the bottom *b*, by moving the cross-bars of the sliding bottom *c* over them, which is done by moving the lever *k*, crank-shaft *h*, and rods *j j*.

Having thus fully described my invention,

What I claim, and desire to secure by Letters Patent, is—

The combination of the bottoms *a b c* and endless apron D, when constructed and operating as herein shown and described.

W. C. BURNETT.

Witnesses:

J. E. BURNS,

WM. H. HILLEGAS.