

S. O. MASTERS.

Grain Sower.

No. 120,081.

Patented Oct. 17, 1871.

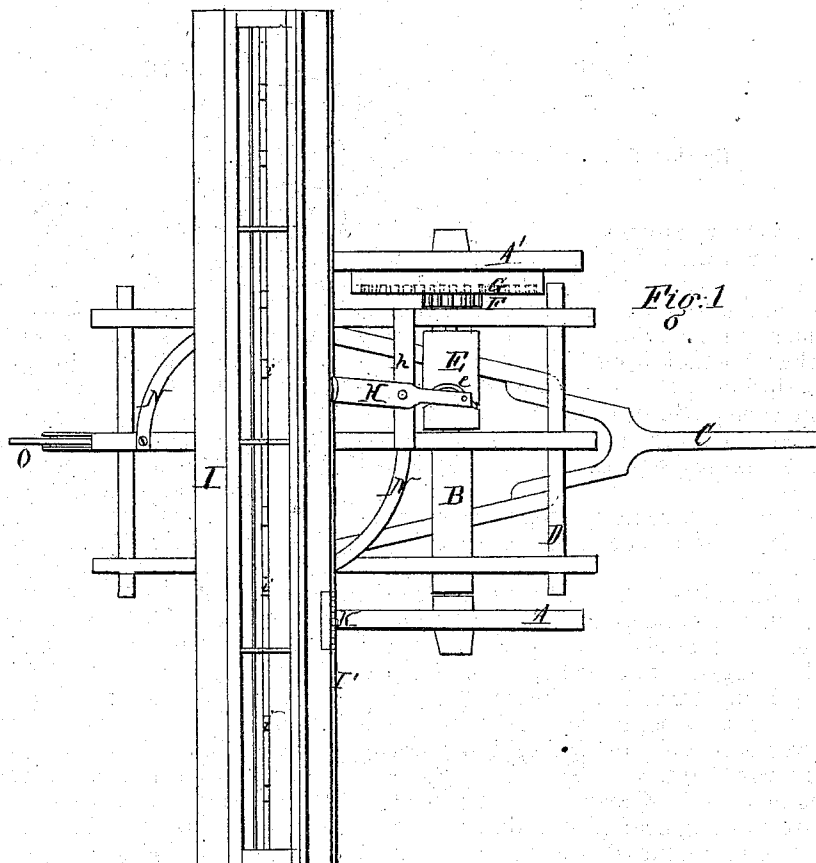


Fig. 1

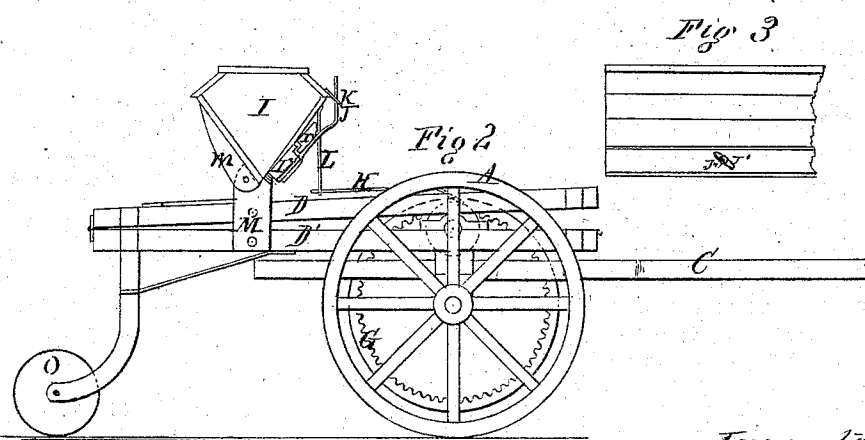


Fig. 3

Fig. 2

Witnesses

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SAMUEL O. MASTERS, OF CORNING, NEW YORK.

IMPROVEMENT IN SEEDING-MACHINES.

Specification forming part of Letters Patent No. 120,081, dated October 17, 1871.

To all whom it may concern:

Be it known that I, SAMUEL O. MASTERS, of Corning, in the county of Steuben, and State of New York, have invented a new and valuable Improvement in Seed-Sowers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a top view of my invention. Fig. 2 is a side view, and Fig. 3 is a detached view.

This invention has relation to an implement for sowing plaster, guano, and the like broadcast; and the novelty consists in the construction and improved arrangement of the hopper, which permits of its being turned lengthwise of the machine, so as not to be interfered with in going through woods to and from the field, or passing through narrow ways.

This implement is designed to be placed on the forward running-gear of an ordinary wagon, of which A A' represent the wheels; B, the axle; and C the draft-pole. D D' represent a pair of rectangular frames hinged together at their rear ends. The lower frame D' holds a roller, E, having cut in it a cam-groove, *e*. This roller is located in the forward part of its frame, and on one end of its shaft a pinion, F, is fixed and made to engage with an internally-toothed spur-wheel, G, secured to the spokes of the wagon-wheel A'. H indicates an arm pivoted to a cleat, *h*, on the frame D. Its forward end holds a stud, which falls into the cam-groove *e*, while its rear end is connected to a lever-arm which serves to operate the shaker. I designates the hopper pivoted to the frame D. I¹ represents the shaker-slide furnished with teeth *i*, which enter the hopper. I² represents a bar operated by a lever, J, and adapted to regulate the size of the opening in the bottom of the hopper. It is guided by means of oblique slots J', through which screws J'' pass into the bar K or side of the hopper. The lever

J is held at any desired point by a rack, K, secured to the top of the hopper. L designates the lever, which, being pivoted to the shaker-slide, is connected to the rear end of the arm H. M represents standards secured to either side of the frame D' and notched at the top to receive the angular bottom of the hopper. They are made of thin metal and enter slots cut in cleats *m* attached to the rear side of the hopper. Pins are inserted through corresponding holes in the cleats and standards to prevent the hopper from being moved out of place accidentally. The pins are removed when the hopper is to be turned. N indicates metallic ways, upon which the lower ends of the cleats *m* slide when the hopper is being turned. O represents a caster-wheel attached to the rear end of frame D, and supporting both frames.

In order to turn the hopper from a transverse to a longitudinal position with reference to the frames, the pins are first taken out of the standards M and the frame D raised up so as to release the stud on the end of arm H from the grooved cam. The end of said arm is then detached from the lever H, after which the hopper may be easily turned to the proper position and the frame let down. The arrangement of the hopper behind the driving-wheels and cam prevents the plaster or guano from entering the groove *e* or crevices around the journals and clogging them up.

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

1. The hopper I, pivoted to the frame D, as and for the purpose set forth.

2. The combination of the pivoted hopper I with frames D D', standards M, and cleats *m*, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

SAMUEL O. MASTERS.

Witnesses:

F. A. WILLIAMS,
F. S. ROBINSON.