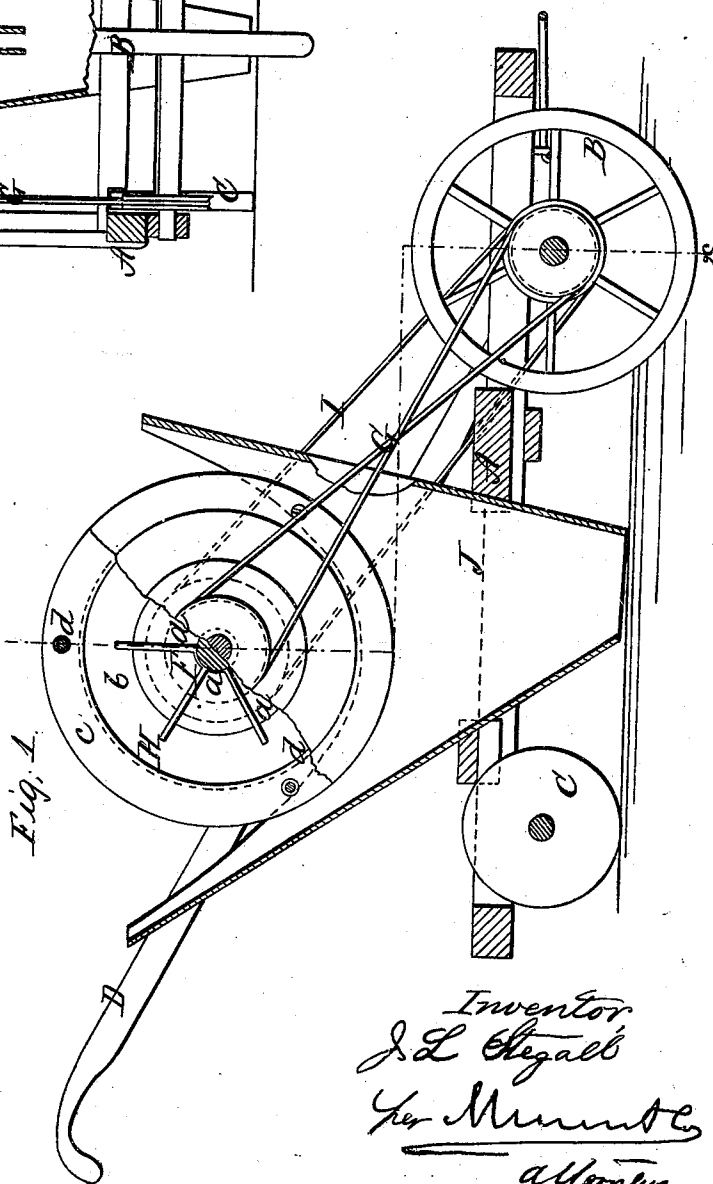
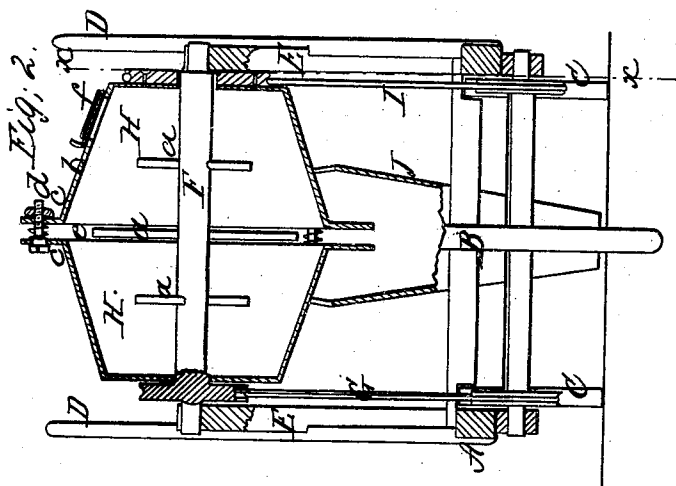


J. L. Stegall.

Mach. for Sowing Manures.

N^o 85,619.

Patented Jan. 5, 1869.



*Witnesses,
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UNITED STATES PATENT OFFICE.

JOSEPH L. STEGALL, OF THOMASVILLE, GEORGIA.

IMPROVEMENT IN MACHINE FOR SOWING PULVERULENT MANURES.

Specification forming part of Letters Patent No. 85,619, dated January 5, 1869.

To all whom it may concern:

Be it known that I, JOSEPH L. STEGALL, of Thomasville, in the county of Thomas and State of Georgia, have invented a new and useful Improvement in Machines for Sowing Pulverulent Manures; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *x x*, Fig. 2. Fig. 2 is a transverse section of the same, taken in the line *x' x'*, Fig. 1.

Similar letters of reference indicate like parts.

This invention relates to a new and improved machine for sowing pulverulent manures, such as lime, plaster, ashes, guano, &c.

The object of the invention is to obtain a simple, efficient, and economical device, for the purpose specified.

In the accompanying sheet of drawings, A represents a frame, which may be constructed in any suitable manner, supported at its front end by a wheel, B, at its rear end by two wheels, C C. This frame A has two handles, D D, and also two uprights, E E, which serve as supports for a shaft, F, which is rotated by a cross-belt, G, from the axle of the front wheel B of the frame A. This shaft F has radial arms *a* attached to it, a greater or less number, as may be required, and said shaft and its arms are encompassed by a shell or hopper, H, which is fitted loosely on shaft F, so that it may turn or rotate freely thereon. This

shell or hopper is rotated by a straight belt, I, from the axle of the wheel B, and consequently the shaft F and shell or hopper H will be rotated in reverse directions as the machine is drawn along.

The shell or hopper H is composed of two equal transverse parts, *b b*, provided with flanges *c c* at their inner ends, through which bolts *d* pass. The inner ends of these parts *b b* are not brought in contact with each other, a space, *e*, being allowed between for the escape of the manure, which is placed in the shell or hopper through a door, *f*.

J is a spout, which conducts the manure, as it is discharged from the shell or hopper, down to the drill or furrow in which it is to be deposited.

The rotation of the shaft F and its arms *a* being in a direction reverse to that of the shell or hopper H, it will be seen that the manure cannot clog or choke up the discharge-space *e*, and if the manure should be lumpy, on account of dampness or other causes, the lumps will be broken and the manure discharged in a proper pulverized state.

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

The rotating shell or hopper H, constructed of two parts, *b b*, with a space, *e*, between, in combination with the shaft F, provided with radial arms *a*, and rotating in a reverse direction to the shell or hopper, substantially as and for the purpose specified.

JOSEPH L. STEGALL.

Witnesses:

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