O. PERRY.

SEEDERS.

No. 187,901. Patented Feb. 27, 1877.

Fig. 1.

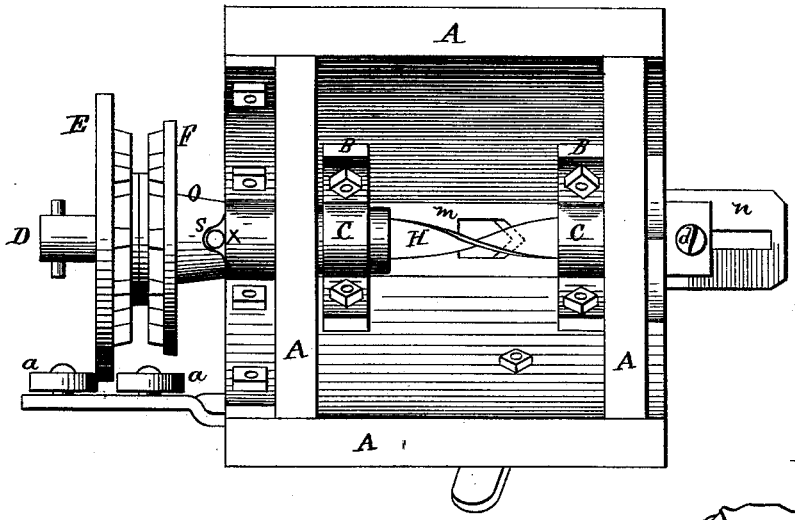


Fig. 3.

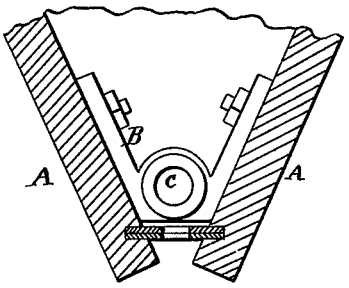
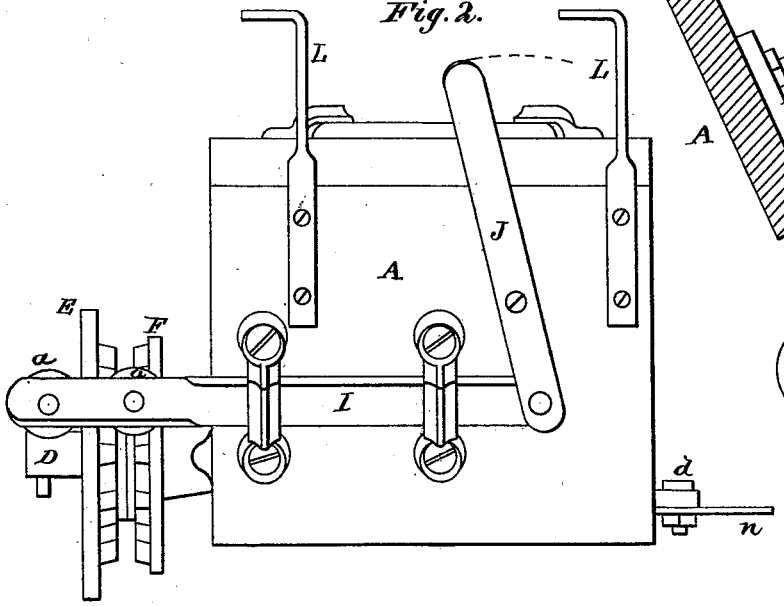
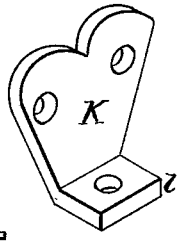


Fig. 2.





WITNESSES

Henry N. Miller

Frank Galt

INVENTOR

Oliver Perry.

Alexander Duaton

ATTORNEYS.

UNITED STATES PATENT OFFICE.

OLIVER PERRY, OF FLINT, MICHIGAN, ASSIGNOR OF ONE-HALF HIS RIGHT TO OREN STONE, OF SAME PLACE.

IMPROVEMENT IN SEEDERS.

Specification forming part of Letters Patent No. **187,901**, dated February 27, 1877; application filed February 8, 1877.

To all whom it may concern:

Be it known that I, OLIVER PERRY, of Flint, in the county of Genesee, and in the State of Michigan, have invented certain new and useful Improvements in Seeders; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of the several parts of a seeding-machine, the peculiarities of which will be more particularly hereinafter described.

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

In the accompanying drawings, making part of this specification, Figure 1 represents a plan view, Fig. 2 a side view, and Fig. 3 a section, of the seed-box.

In the figures, A represents the seed-box, which is made in triangular or V shape. At the bottom of the box is the seed-plate *m*, which is provided with a seed-opening, which is rectangular at one end and V-shaped at the other. Beneath this plate is the seed-regulating slide *n*, which is provided with an opening similar to that in the plate *m*, which forms the bottom of the box. The slide works in proper grooves made to receive it, and has an endwise movement, and is suitably graduated. It is held in place, when properly adjusted, by means of a set-screw, *d*. Just above the plate *m*, and close to it, is a flat bar of iron, which has been twisted into long screw form, so that when it revolves it will act as a cut-off, and at the same time as a stirrer for the grain, or whatever may be in the box. B B represent triangular-shaped braces, which are placed within and without the seed-box. The wings to these braces join a hub, C, at their bottoms, and these hubs are bored out to receive a shaft, D. The inner end of the shaft D is provided with a suitable opening to receive the end of the bar H. The other end of the bar H is held in one of the openings in a hub, C, at the other end of the box, in which it is allowed to revolve freely. Upon that end of the shaft D which projects from the end of the box is a hub, O, and upon this hub are two wheels, E and F, which are placed a short distance apart, but secured so that they may move together. A portion of the inner faces of these wheels are provided with teeth or lugs, so that when a chain is passed between them for giving motion to the shaft, the teeth will prevent it from slipping. The wheel E, it will be seen, is the largest, and has a smooth surface near its rim and outside of the teeth.

I represents a sliding bar, which carries upon its outer end two friction-wheels, *a a*. These wheels are so arranged that their rims embrace the two faces of wheel E near its circumference. The bar I is operated by a lever, J. When the lever is moved in one direction the wheels *a a* move the wheel E and its hub O, to throw the machine in gear, and when moved in the other direction they throw it out of gear. The hub O is provided with recesses *s s*, into which pins *x x* on the shaft D take, in order to enable this result. K is a triangular brace, which is secured to one end of the box, and which is provided with a step or flange, *l*, through which the set-screw *d* passes to station the seed-regulating slide. L L are hooked bars by which the seed-box may be connected or secured to any frame on wheels suitable for carrying it.

This machine is intended for distributing grain of any kind, or it may be used for distributing fertilizers.

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

1. The spiral bar H and shaft D, in combination with hub O and its wheels E and F, the bar I, and its wheels *a a*, and the lever J, all substantially as and for the purpose specified.

2. The triangular braces B, with their hubs C, in combination with the box A and the bar H, and the shaft D, as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of January, 1877.

OLIVER PERRY.

Witnesses:

H. C. VAN DUSEN,

A. W. CLARK.