

T. A. RISHER.
Seed Dropper.

No. 19,871.

Patented Apr. 6, 1858.

Fig. 1.

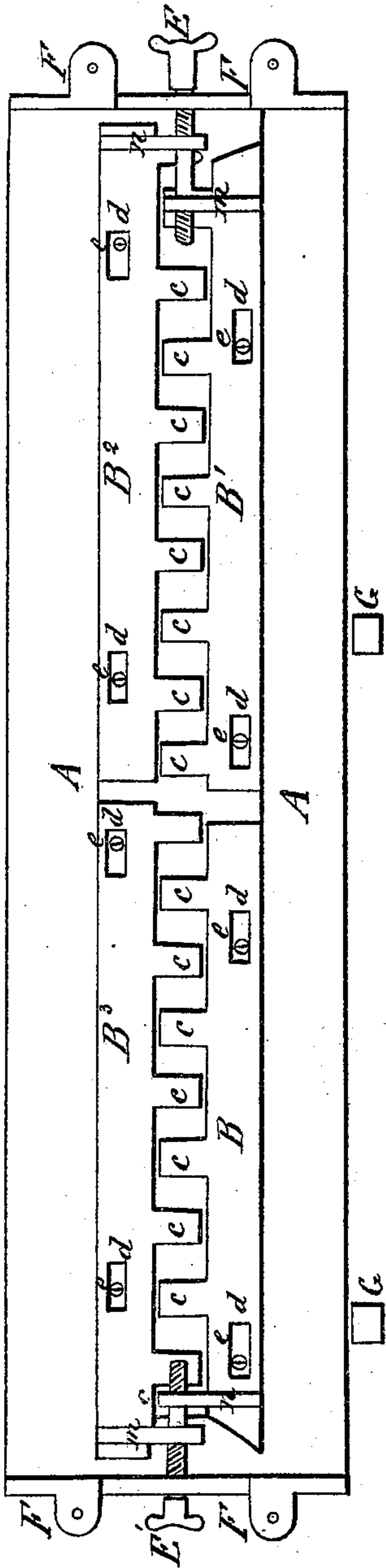
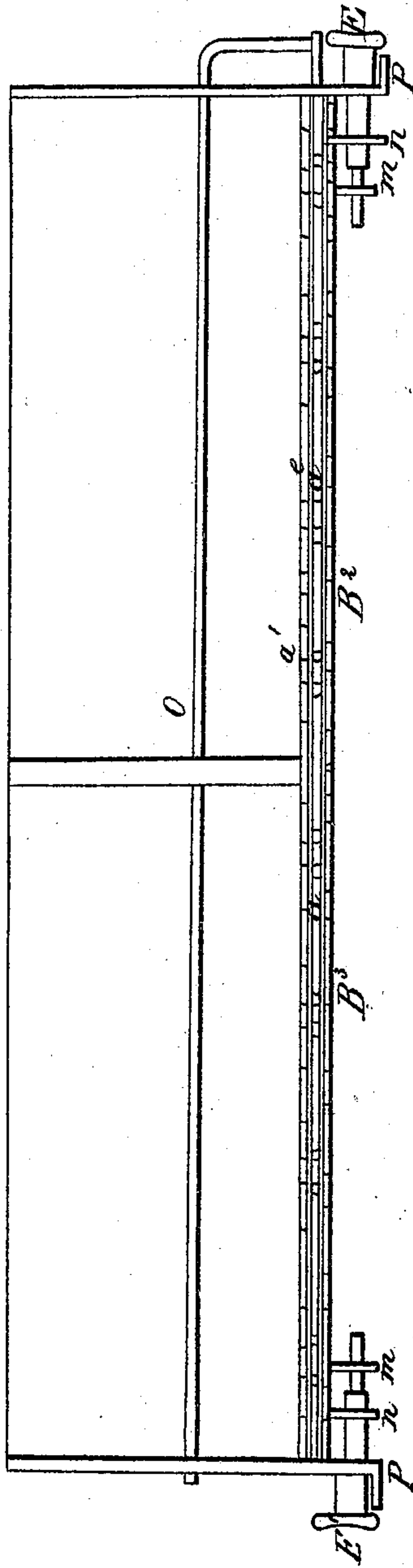


Fig. 2.



UNITED STATES PATENT OFFICE.

THOS. A. RISHER, OF CIRCLEVILLE, OHIO.

IMPROVEMENT IN SEEDING-MACHINES.

Specification forming part of Letters Patent No. 19,871, dated April 6, 1858.

To all whom it may concern:

Be it known that I, THOMAS A. RISHER, of Circleville, county of Pickaway, and State of Ohio, have invented certain new and useful Improvements in Seeding-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the arrangement of certain devices, the peculiarities of which will be hereinafter described.

In order that others skilled in the arts may make and use my machine, I will proceed to describe its construction and operation.

In the annexed drawings, making a part of this specification, Figure 1 is a bottom view of the seed-hopper. Fig. 2 is a longitudinal vertical section.

In Fig. 1, A represents the seed box or hopper. F F are metallic ears or plates, secured to the hopper for the purpose of securing the machine to the carriage. B B' B² B³ are four metallic bars, secured to the bottom of the hopper by means of the screws e e. Said screws, passing through the slots d d of said bars, allow of their being adjusted to suit the quantity of grain to be distributed. c c c c are plates forming a part of the bars B B' B² B³. m n are projections secured to the bars B B' B² B³. The right and left screws E E', being secured to the hopper, pass through these projections, and are the means of operating the bars B B' B² B³. G G are levers secured to the slides of the machine, and serve to operate them and connect them with the running-gear of the carriage.

In Fig. 2, B³ B² are the bars seen in Fig. 1. E E' are right and left screws for the purpose of regulating said bars. m m n n are projections, secured to said bars, and through which screws E E' pass for the purpose of adjusting the bars. a' is the inside bottom of the hopper. a a² are the reciprocating slides for the

purpose of carrying the seed. O is a stirrer, passing through the hopper, for the purpose of agitating the grain to prevent clogging or choking. Said stirrer, being in the form shown in this figure, is secured to the slide a², and is operated by means of it when the machine is in motion.

The bars B B' B² B³ in this machine are made in four parts, as will be readily seen, and are so constructed in order to avoid the irregularities of the cast slides and for the purpose of arriving at a nicer and more regular adjustment of said bars to suit the quantity of seed to be discharged.

It will be seen that as the plates c c c c are made to approach each other the apertures are made smaller and a less quantity of seed may be discharged, and that when they recede from each other a greater quantity of seed will be discharged. Now, in casting the slides a a², if one slide is cast a very little thicker than the other, the cups of that slide will be just that much deeper, and if all the plates were regulated alike one side of the machine would seed much more to the acre than the other side would; but by providing a set of plates and a screw for each slide I am enabled to regulate these plates to suit the thickness of the slide, and thus make my machine seed alike at all times.

Having thus fully described my invention, I do not claim the combination of the bar and plates with the double-holed bottom and the reciprocating slides, as this I have patented; but

What I do claim is—

The peculiar arrangement of the bars B B' B² B³ with the right and left screws E E', slides a' and a², with its stirrer O, for the purpose of regulating the quantity of grain with uneven slides, as is herein fully described.

T. A. RISHER.

Witnesses:

C. M. ALEXANDER,

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