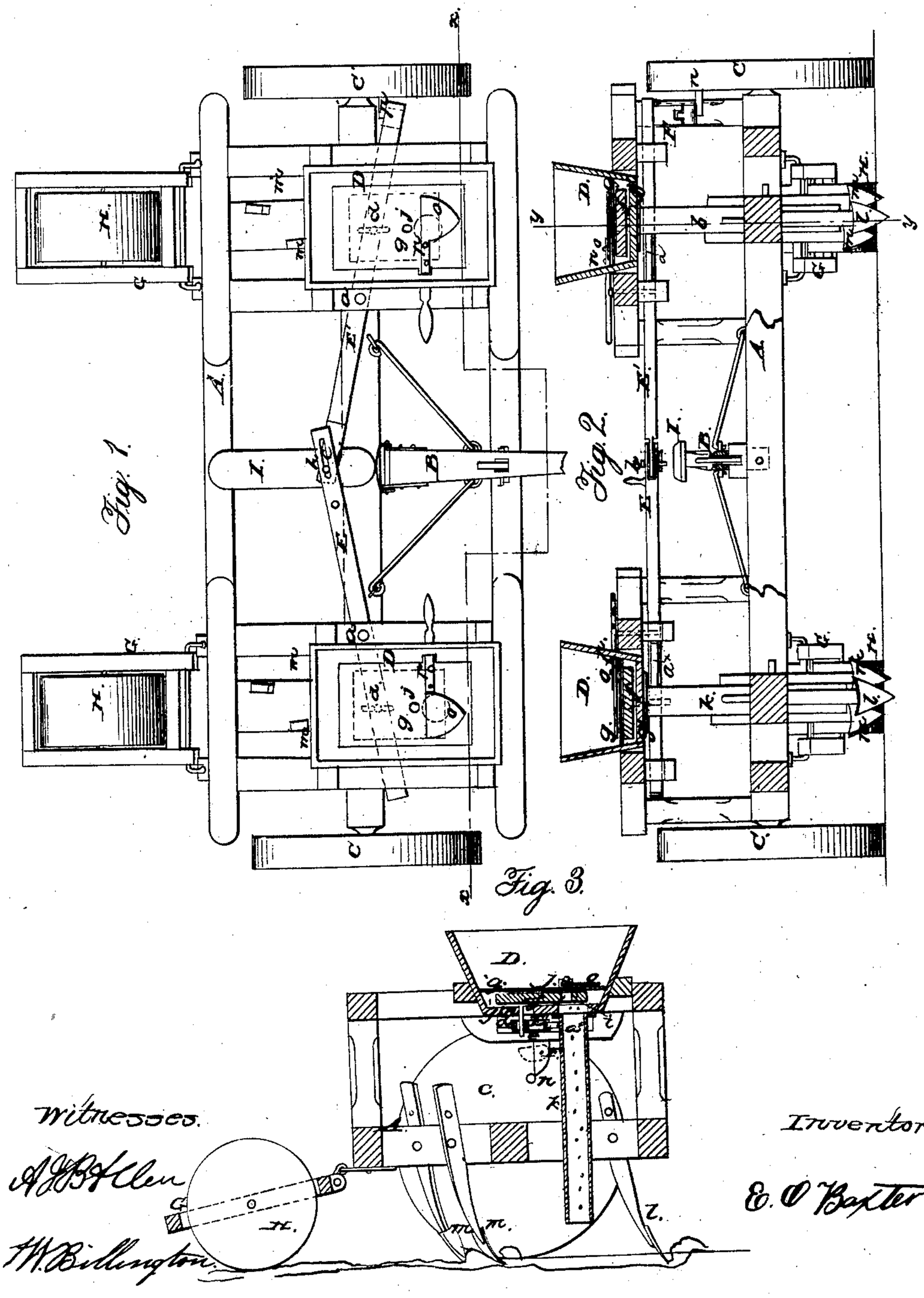
E. O. BAXTER.

Corn-Planter.

No. 23,213. Patented Mar. 8, 1859.



Witnesses.

A. J. B. Allen

H. W. Billington.

Inventor:

E. O. Baxter

UNITED STATES PATENT OFFICE.

E. O. BAXTER, OF FORRESTON, ILLINOIS, ASSIGNOR TO HIMSELF AND E. H. RILEY AND W. T. SWEET, OF SAME PLACE.

IMPROVEMENT IN SEEDING-MACHINES.

Specification forming part of Letters Patent No. **23,213**, dated March 8, 1859.

To all whom it may concern:

Be it known that I, E. O. BAXTER, of Forreston, in the county of Ogle and State of Illinois, have invented a new and useful Improvement 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 annexed drawings, making a part of this specification, in which—

Figure 1 is a plan or top view of a seeding-machine with my improvement applied to it; Fig. 2, a vertical section of the same, taken in the line *x x*, Fig. 1; Fig. 3, a section of the same, taken in the line *y y*, Fig. 2.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to an improvement in that class of seeding-machines in which the seed-slides are operated by cams from one of the wheels on which the machine is mounted.

The object of the invention is to prevent by a very simple means the operation of the seed-slides as the machine is "backed."

The invention also has for its object the arrangement of seed-slide levers in such a manner that they may be placed under the complete control of the driver, and any irregularities as regards the dropping of the seed, which might ensue on account of the inequalities of the ground, prevented.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents a frame, which may be constructed in any proper manner to support the necessary parts of the machine.

B is the draft-pole, and C C′ are the wheels on which the frame A is mounted.

On the frame A two seed-boxes, D D, are placed, one near each end, and in said frame two levers, E E′, are placed, and secured by the fulcrum-pins *a a*. The inner ends of the levers E E′ are fitted together by a tenon and mortise and a pin, *b*, which is fitted in the tenon, and has its ends passing through oblong slots *c* in the sides of the lever in which the mortise is made. (See Figs. 1 and 2.) The outer parts of the levers E E′ extend underneath the seed-boxes D D, and each lever has an oblong mortise, *d*, made through it to receive a pin, *e*, said pins projecting down from slides *f*, that are placed between the two bottoms *g g′* of the seed-boxes D D, oblong slots or openings *h* being made in the lower bottom, *g′*, to allow the pins *e e* to pass through and work back and forth. Each slide *f* has an opening, *i*, made through it, and a hole, *j*, is made through each of the upper bottoms, *g*, of the seed-boxes, and a tube, *k*, is attached to the lower bottom, *g′*, of each seed-box, said tubes extending down nearly to the ground. Directly in front of each tube *k* a furrow-share, *l*, is placed, and two covering-shares, *m m*, are placed directly behind each tube *k*. These shares may be arranged in the usual way, and therefore do not require a minute description.

To the outer end of the lever E′ a jointed pendant, F, is attached, said pendant bending backward—that is to say, toward the back part of the frame A—and remaining rigid in the opposite direction. This will be clearly understood by referring to Fig. 3. To the inner side of the wheel C′ one or more projections or cams, *n*, are attached, and to the back part of the frame A two swinging frames, G G, are attached, each frame being provided with a roller, H, which rollers are in line with the tubes *k* and shares *l m m*. A spring, *a*×, bears against each lever E E′, said springs having a tendency to keep the outer ends of the levers forced back and the holes *i* in the slides out of register with the holes *j* in the upper bottoms, *g*.

In each seed-box D D a cut-off plate, *o*, is placed. These plates work on pivots *p*, and may be shoved over the holes *j*, when desired, to prevent the distribution of seed. In the frame A, and at a point in line with the inner ends of the levers E E′, the driver's seat I is placed.

The operation is as follows: The seed-boxes D D are supplied with a requisite quantity of seed, and as the machine is drawn along the seed is distributed from the boxes D D by the slides *f*, which are actuated through the medium of the levers E E′, pendant F, and the cam or cams *n* on the wheel C, both slides *f* being actuated by one pendant and the cam or cams on one wheel only, in consequence of the levers E E′ being connected at their inner ends, as shown and described, the slides *f* distributing the seed as they are moved forward, when the holes *i* register with the tubes *k*. The cam or cams *n*, it will be seen, can actuate the

levers E E′ only when the machine is moving forward, for when the wheels move backward the joint of the pendant will give and allow the cams to pass it. In case the levers E E′ require to be operated occasionally in order to insure the dropping of the seed in check-rows, the driver can, by grasping the levers E E′, modify their action or movement, so as to insure the desired result. This is an essential feature of the invention, for in rough ground it is extremely difficult to plant seed in check-rows, the undulations of the ground causing a great variation. By my invention this difficulty is avoided, for the driver can so manipulate the levers as to drop the seed at any point irrespective of the cam *n*.

I am aware that seed-slides have been arranged to distribute seed in various ways, and I therefore do not claim such device. Nor do I claim, broadly, operating the slides by levers irrespective of the arrangement of the same, as herein shown and described; but,

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

1. The cam *n*, one or more, attached to wheel C, in combination with the jointed pendant F, attached to the lever E, substantially as and for the purpose set forth.

2. The levers E E′, connected together and arranged relatively with each other and the driver's seat I, substantially as and for the purpose specified.

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Witnesses:
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