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W. POST & M. COLBERT.

Seed-Planter.

No. 161,438. Patented March 30, 1875.

Fig 1

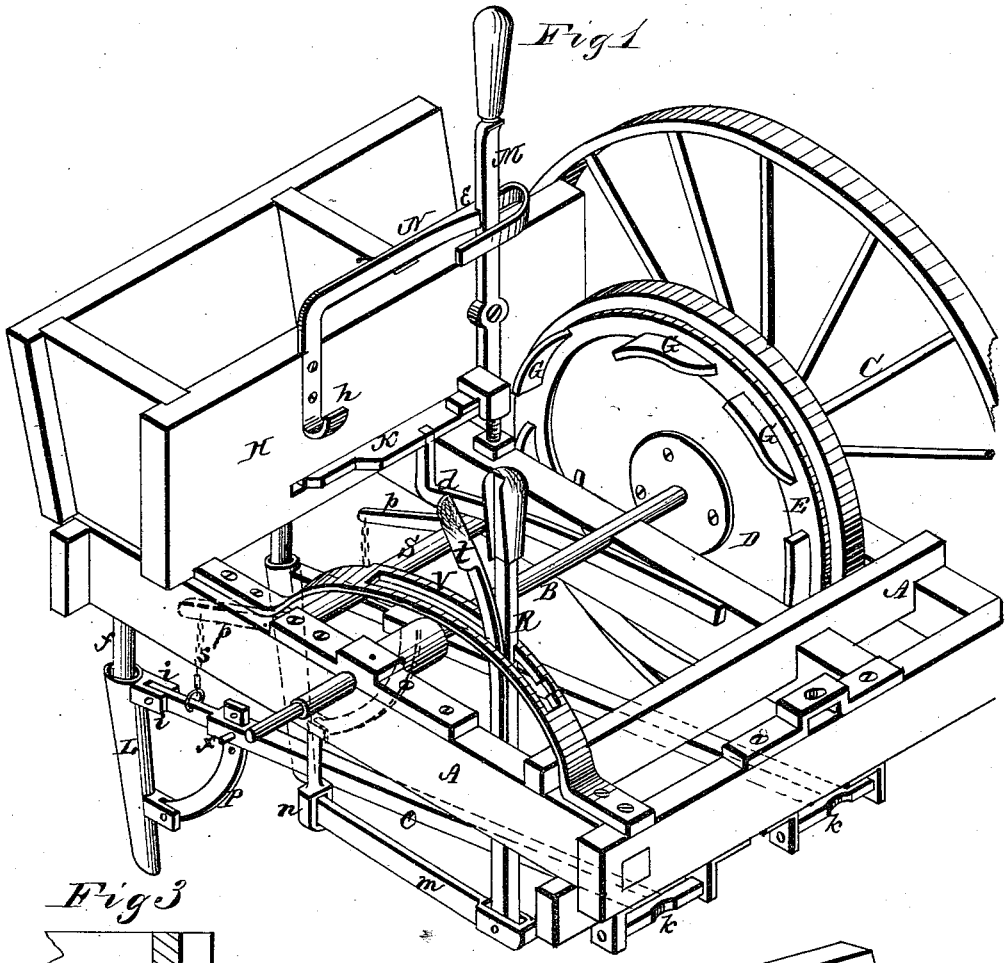


Fig 3

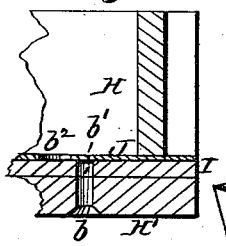
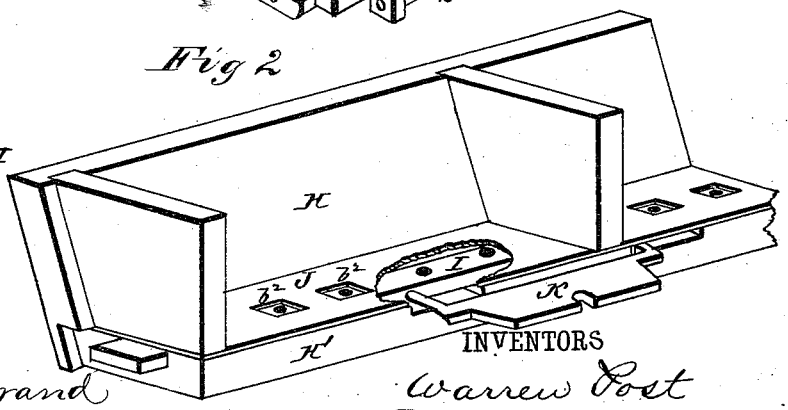


Fig 2



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2 Sheets--Sheet 2.

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Fig 5

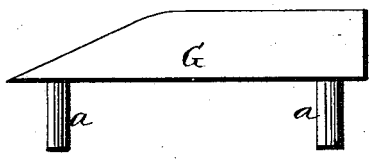
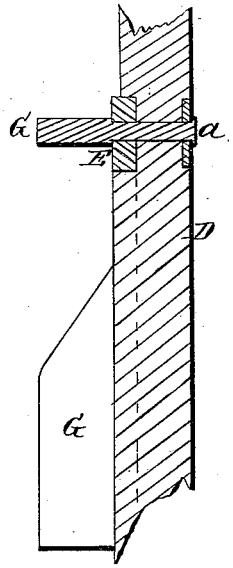


Fig 4



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UNITED STATES PATENT OFFICE.

WARREN POST AND MASON COLBERT, OF WARSAW, MISSOURI.

IMPROVEMENT IN SEED-PLANTERS.

Specification forming part of Letters Patent No. **161,438**, dated March 30, 1875; application filed July 8, 1874.

To all whom it may concern:

Be it known that we, WARREN POST and MASON COLBERT, of Warsaw, in the county of Benton and in the State of Missouri, have invented certain new and useful Improvements in Seed-Planter; 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 our invention consists in the construction and arrangement of a seed-planter, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a perspective view of our seed-planter complete. Fig. 2 is a perspective view of the seed-box, broken open to show the interior thereof. Fig. 3 is a section of a part of the same. Figs. 4 and 5 are detached views, showing the mode of attaching the operating cams.

A represents the frame of the machine, provided with suitable boxes to form bearings for the axle B, passing through them. Upon the ends of the axle are placed the wheels C C, one of which is fast upon the axle and operates as the driving-wheel, while the other is loose on the axle, so that the machine may be more easily directed and turned. On the axle B, within the frame A, is secured a wheel, D, on one side of which is a circular groove concentric with the wheel, and in this groove is inserted and fastened a metallic ring, E, and on this ring are fastened a series of cams, G G. Each of these cams is provided with two stems or rods, *a a*, which are passed through holes in the ring E and wheel D, and riveted on the opposite side of the wheel, as shown in Fig. 4. These cams are for the purpose of operating the dropping mechanism, and the distance between the hills is regulated by the number of cams employed. H represents the seed-box secured on the rear part of the frame A. In the bottom H′ of this box are a number of seed-openings, *b b*, and in the upper surface of the bottom, across said openings, is a longitudinal groove, in which is placed and moves a dropping-slide, I, provided with apertures b^1 b^1. On top of the bottom H′ and slide I is a metal plate, J, provided with large openings b^2. These openings are between the openings *b* of the bottom H′, and not on a line therewith. The slide I is provided with a projecting plate, K, against which the cams G G work, the plate being held against the cams by a spring, *d*. As the wheel D revolves, each cam G in succession moves the slide I so that its openings b^1 will be under the openings b^2 of the plate J, and as soon as the cam passes the edge of the plate K the spring *d* throws the slide back to its position, where it was when the cam commenced to operate—that is, with the openings b^1 on a line with the openings *b* of the bottom H′, allowing the seed caught by the openings in the slide to fall down through said openings *b* and through the conducting-tubes *f* and shoes L into the ground. M is a lever pivoted to the front of the seed-box H to throw the dropping-slide I out of gear with the cams G, the lever being then held by a catch, *e*, on a spring-arm, N, one end of which is also fastened to the seed-box H, and formed or provided with a hook, *h*. This hook is to support the lever when released from the catch, and the slide is thrown in gear with the cams. The shoes L are each at their upper ends provided with ears *i i*, between which is pivoted the rear end of a bar, O. The front end of this bar is provided with a cross-bar, *k*, or, in other words, made T-shaped, and the ends journaled or pivoted in ears depending from the front beam of the main frame A. Near the lower end of each shoe L, in suitable ears thereon, is pivoted a curved arm, P, which passes up through a slot or mortise in the arm O, and is held there by means of a wooden pin, *x*. The upper end of the curved arm P is provided with a number of holes, so that the shoe may be adjusted at any angle desired, and when it meets any solid obstruction the pin *x* will break, and the shoe turn on its pivot, thus preventing any injury to the machine. In the frame A, to one side thereof, is pivoted a lever, R, the lower end of which is, by a rod, *m*, connected with an arm, *n*, ex-

tending downward from a shaft, *s*, running parallel with the axle B. From this shaft extend other arms *p p*, which are connected by chains *s s* with the arms O O, so that by the movement of the lever R the shoes may be raised and lowered as desired. The lever R is held by a spring, *t*, in a rack, V, as shown in Fig. 1.

We are aware that cams have been placed on the inner face of a wheel for operating a seed-slide; hence we do not broadly claim such as our invention.

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

1. The combination of the wheel D, provided with a concentric groove on one side, the metal ring E, placed in said groove, and the cams G G, each provided with pins *a a*, passing through the ring and wheel, and riveted on the opposite side of the wheel, substantially as herein set forth.

2. The vertical pivoted lever M, and spring-arm N, with catch *e* and hook *h*, in combination with the plate K and seed-slide I, as and for the purposes set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 6th day of June, A. D. 1874.

WARREN POST.
MASON COLBERT.

Witnesses:
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W. H. STRATTON.