H. F. BAKER.

CORN AND SEED-PLANTER.

No. 191,019. Patented May 22, 1877.

Fig. I.

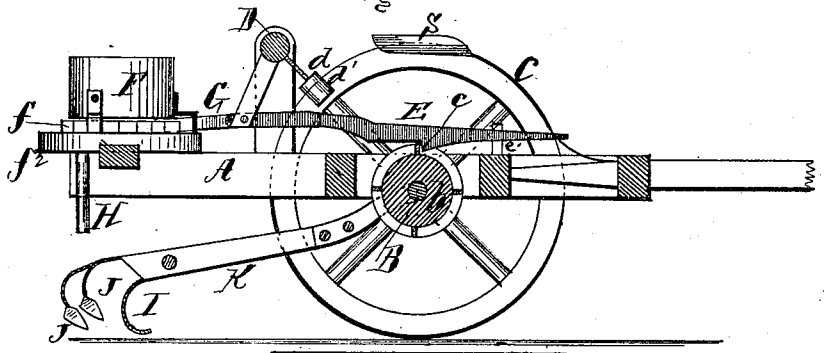


Fig. II

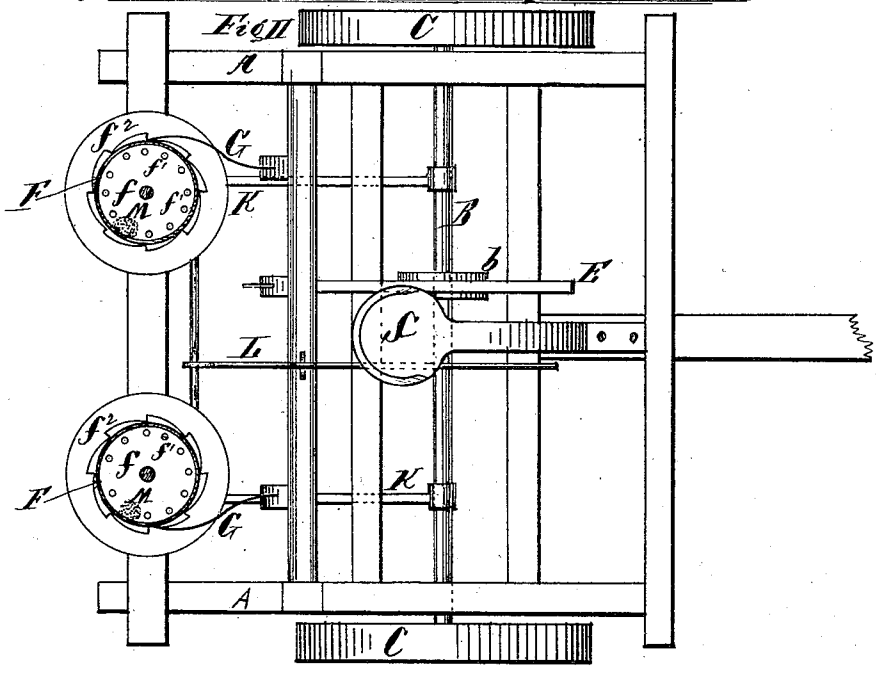
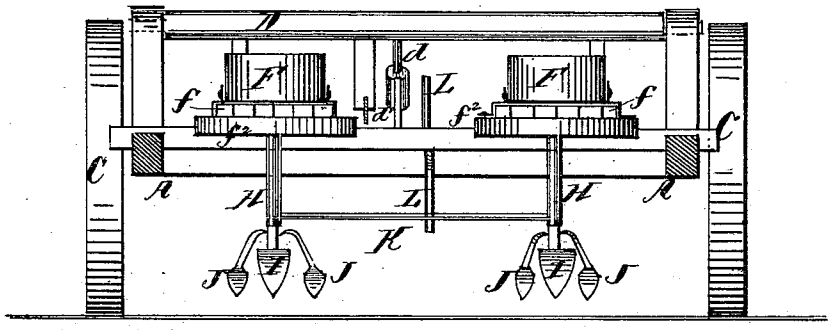


Fig. III.



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UNITED STATES PATENT OFFICE

HENRY F. BAKER, OF CENTREVILLE, INDIANA.

IMPROVEMENT IN CORN AND SEED PLANTERS.

Specification forming part of Letters Patent No. **191,019**, dated May 22, 1877; application filed March 10, 1877.

To all whom it may concern:

Be it known that I, HENRY F. BAKER, of Centreville, Wayne county, State of Indiana, have invented a new and useful Improvement in Corn or Seed Planters, of which the following is the specification:

The machine is mounted on two wheels, which are connected together by an axle fixed to the wheels, so as to revolve with them, and this revolving action sets in motion the dropping machinery, which is connected with two seed-hoppers, from which the seeds are dropped through tubes to the ground, in the usual manner, and then covered by the covering-shovels.

The invention will be readily understood by reference to the accompanying drawings, of which Figure I is a central longitudinal sectional elevation of the improved machine. Fig. II is a general plan of the same. Fig. III is a rear end elevation of it.

The frame-work A, upon which most of the operative parts of the machine are built, is supported by suitable bearings upon the axle B, that rests in, and is fixed to, the wheels C, so that the axle and wheels revolve together. Somewhere about the central part of the axle is fixed a ratchet, *b*, that revolves with it, for the purpose presently explained.

Above the axle, and supported in suitable bearings attached to the frame A, is a rock-shaft, which has a weighted arm, *d*, with weight *d'*, that habitually tends to rotate the said rock-shaft forward. A pitman, E, suitably connected with the rock-shaft D, is arranged to have a lug, *c*, on its bottom side, engaged by the ratchet *b* as the axle revolves, and so a reciprocating motion is given to the pitman E, and a rocking motion to the shaft D, by reason of the teeth of the ratchet drawing the pitman forward and giving a half-rock to the shaft D, and then the weight *d'* acts to move the rock-shaft in the opposite direction, as soon as the teeth of ratchet *b* are released from the lug *c*, and soon the rocking motion of the shaft D is continued as long as the pitman is left in gear with the ratchet *b;* but the driver, seated on the seat S, may easily stop the motion of the shaft D, and with it the dropping machinery, as will be presently shown, by reaching down just below the said seat S, and lifting up the end of the pitman, and placing it on the rest C', so that it cannot be engaged by the ratchet, and then, of course, the pitman and its attachments will remain idle.

On the rear part of frame A are placed two seed-hoppers, F, the bottoms of which are made of revolving disks *f*, the peripheries of which are serrated with teeth, like a ratchet-wheel, and extend outside of the hoppers, so as to be engaged by the pawls G, that are actuated by the rock-shaft D, so as to move the said disks forward a certain distance at each revolution of the axle B, in the manner hereinbefore shown and described.

Within the hoppers F the disks *f* are perforated with holes f^1, arranged concentrically inside of the hoppers. As these holes are drawn around over the holes in the fixed bottoms f^2, which are placed over the seed-tubes H, a sufficient amount of seed for one dropping will pass down through the said tubes into the furrows, which shall have been opened by the plows I, and immediately thereafter the coverers J will follow and cover the seed, and complete the planting.

The plows I and the coverers J will be attached to the frame K, that is coupled to the axle B or the frame A, as may be found most convenient; and this frame K, with its connections, when not in use, may be raised and held out of the way by means of the lever L, that is directly below the driver's seat, and therefore easily operated by his foot.

Brushes M, made of leather, are placed in the hoppers F, in such positions as to sweep the tops of the revolving disks, and brush the seed into the perforations f^1.

Having described my invention I claim—

1. In a seed-planter, the combination of the axle B, carrying the ratchet-wheel *b* and the notched lever E, with the pawl G and rock-shaft D, carrying the weighted lever *d*, as and for the purpose set forth.

2. The seeding mechanism, consisting of the hoppers F, revolving perforated bottom *f*, fixed perforated bottom f^2, and spout H, in combination with the operating mechanism *b* E and D G, and opening and covering mechanism I J J, as set forth.

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