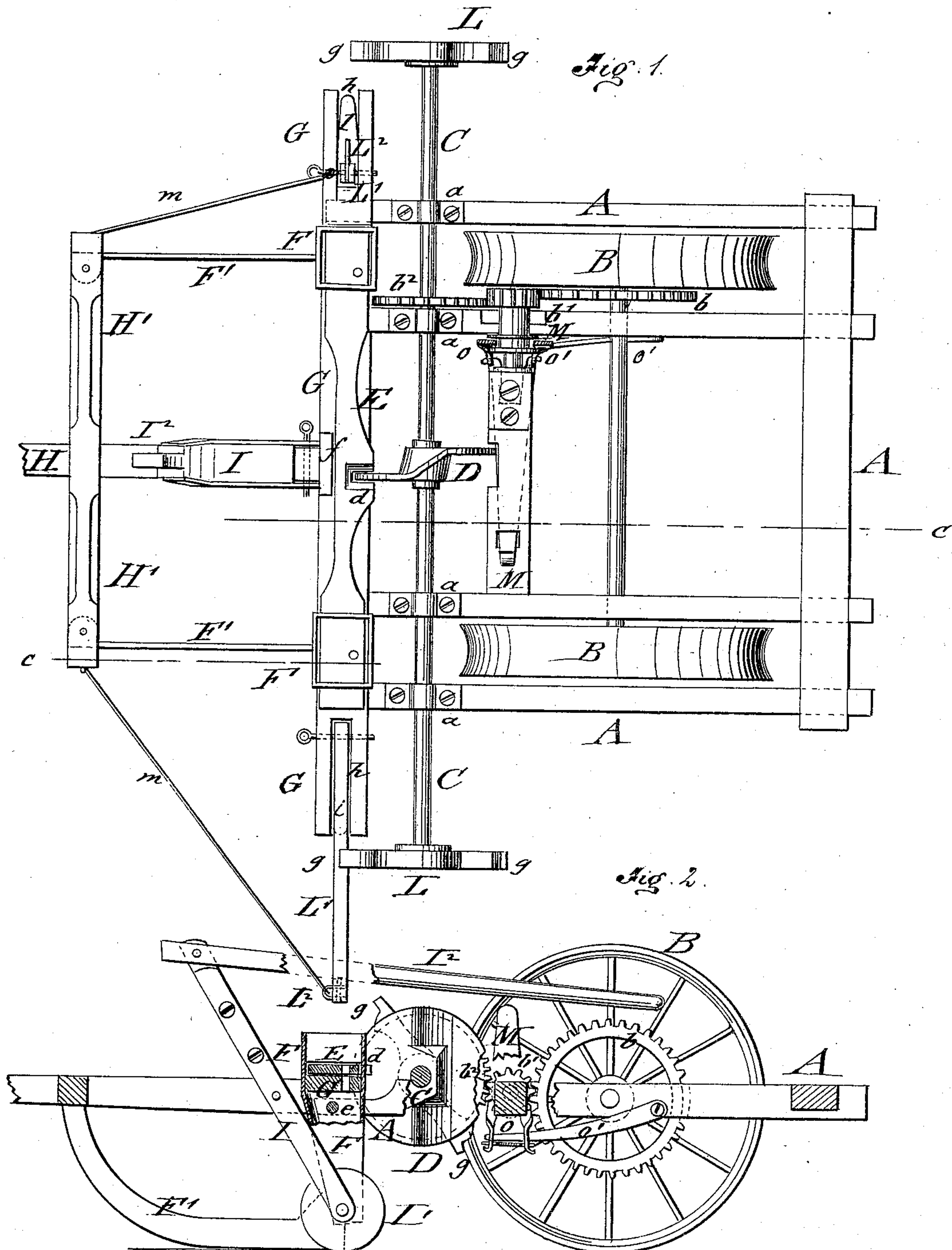


G. H. HUME.
Corn-Planters.

No. 152,494.

Patented June 30, 1874.



WITNESSES.

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UNITED STATES PATENT OFFICE,

GEORGE H. HUME, OF PAOLA, KANSAS.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. **152,494**, dated June 30, 1874; application filed December 20, 1873.

To all whom it may concern:

Be it known that I, GEORGE H. HUME, of Paola, in the county of Miami and State of Kansas, have invented a new and Improved Corn-Planter, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view of my improved corn-planter with parts cut off; and Fig. 2, a vertical longitudinal section of the same on the line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The invention relates to a combined planting and marking machine; and consists in the construction and arrangement of parts, as hereinafter described in a general way, and expressly indicated in the claims.

In the drawing, A represents the frame of the corn-planter, which is supported on the axle of the driving and covering wheels B. In front of the wheels B is supported, on suitable bearings *a*, the main shaft C, to which motion is communicated by gear-wheels *b b¹ b²*, from the axle of the wheels B.

Centrally to frame A is keyed, on shaft C, the wave-wheel D, which actuates the sliding piece E by engaging a central recess, *d*, of the same. The sliding piece D is thereby carried alternately from right to left, causing the dropping of the seed from the seed-boxes F in front of wheels B, in the usual manner. Slide D moves on the cross-piece G, which is pivoted by a cross-bolt, *e*, laterally to the front ends of frame A.

The tongue H is rigidly applied to cross-piece G, being also provided with a shorter cross-piece, H', to whose ends the runners F', which connect with the seed-boxes F, are fastened. A vertical rest-piece, *f*, at point of connection of tongue H and cross-piece G, serves to support the pivoted arm I of front roller I¹. A lever, I², is applied to the upper end of arm I, and controlled by the attendant, so that when the same is thrown forward, roller I¹ is carried back, lowering cross-piece G, tongue H, and runners F', and marking the furrows for the seed.

When lever I² is thrown back till arm I rests vertically against the seat or rest piece *f*, roller I¹ is brought forward and raises tongue H and

runners F' above the ground, for turning the planter from one row into the next, and for going to or from the place of work.

To each end of shaft C are firmly applied rotating arms L, which strike with their inclined end lugs *g* the pivoted marker-rods L¹, at both ends of cross-piece G. Arms L are placed in such a manner on shaft C that each lug *g* strikes rod L¹ simultaneously with the dropping of the seed from the adjoining seed-box F. The rods L¹ extend in lateral direction at both sides of cross-piece G, being guided by recesses *h* at both ends of the same, and carried back into horizontal position after being pressed down by band-springs *l*, applied below them to cross-piece G.

A light movable iron rod, *m*, connects the outer end of each marker-rod L¹ with the end of cross-piece H', giving thereby greater stability to the same, without preventing the marker-rod from being thrown up into upright position against the seed-boxes, to be out of the way after use, as shown in Fig. 1. The end of each marker-rod L¹ is provided with a check or marker, L², of forked or other shape, which leaves an impression on the surface of the ground after each stroke of arm L.

The distance of the markers L² from the runners H' is equal to the distance between the runners, so that the rows are kept at equal distances from each other by following with the planter the line of marks produced on the ground, the double marker-rods checking the regular diagonal distance of the hills.

A hand or foot lever, M, is applied to a forked lever, O, of the shaft of the intermediate gear-wheel *b¹*, by which the same may be thrown out of gear, as required, while a band-spring, *o'*, applied to the lower end of forked lever *o*, carries wheel *b¹* back to mesh with wheels *b b²* on the release of lever M. The longer arm of the lever M projects up through a slot in the cross-bar of the frame to which it is attached, to adapt it for application of foot-pressure, when required to throw the wheel *b¹* into gear with wheels *b b²*. The seed-dropping and row-marking operation is thereby interrupted and resumed at the will of the attendant, forming thus a very convenient and efficient apparatus for farm use.

Having thus described my invention, I claim

as new and desire to secure by Letters Patent—

1. The combination of the foot-lever M, projecting upward at its free end through the slotted cross-bar of the frame, the band-spring o' , forked lever o , adjustable wheel b^1 , gear-wheels b b^2 , wheels B and axle, the shaft C, arms L, and markers L^1 , all as shown and described.

2. The marker-rods L^1 , pivoted to the forked

ends of front cross-piece G, and provided with markers L^2 , in combination with rotating arms L, spring h , and steadying-rods m , for producing the regular marking of the rows and return of the rods in position for the arms, as set forth.

GEORGE H. HUME.

Witnesses:

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WM. T. POTTS.