

T. BARTON.

Corn Planters and Cultivators.

No. 156,528.

Patented Nov. 3, 1874.

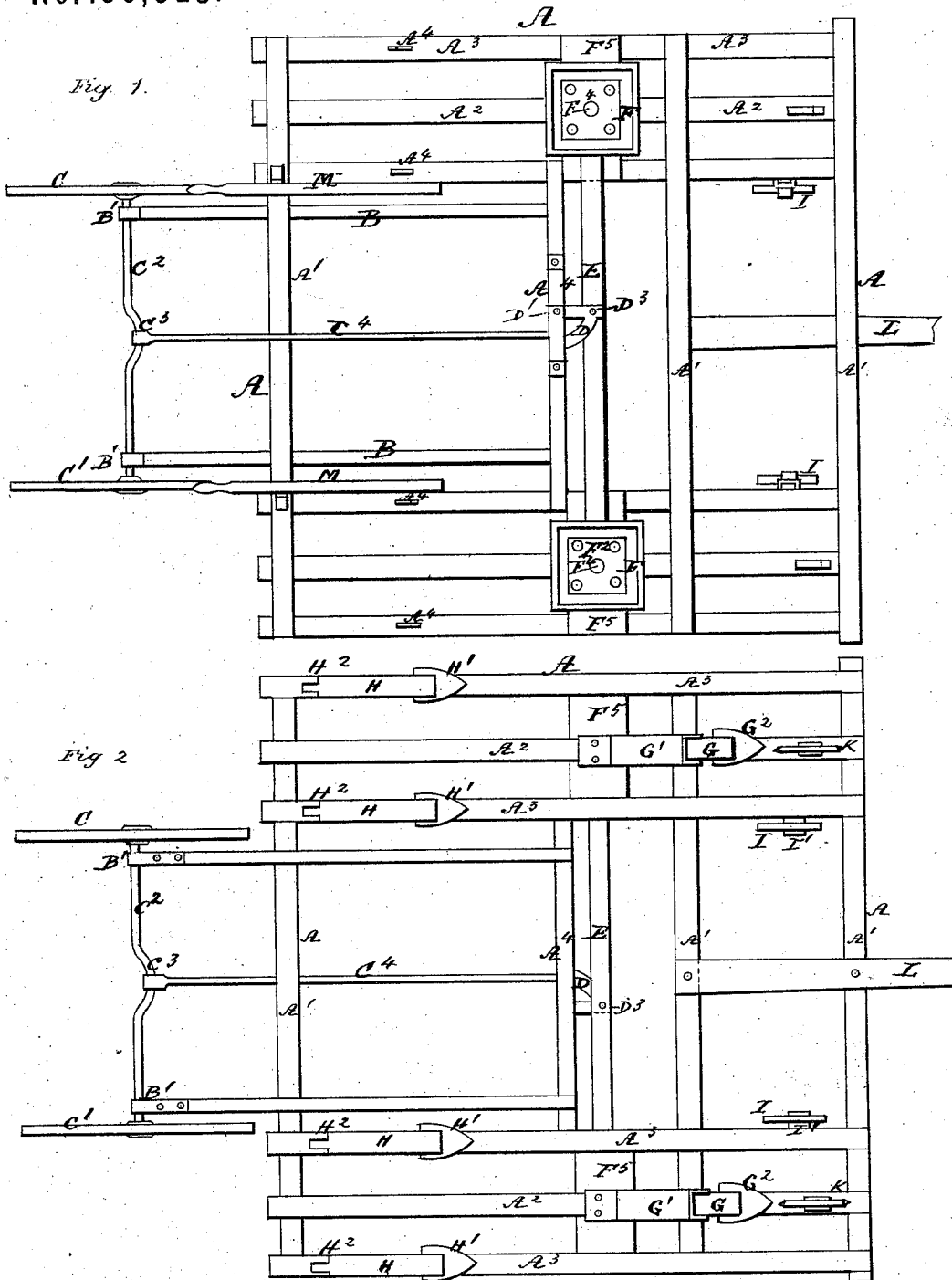


Fig 2

Witnesses
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Wm. H. Breerton Jr.

Inventor
Taylor Barton
by his attorney
Colborne Brooks

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Fig 3

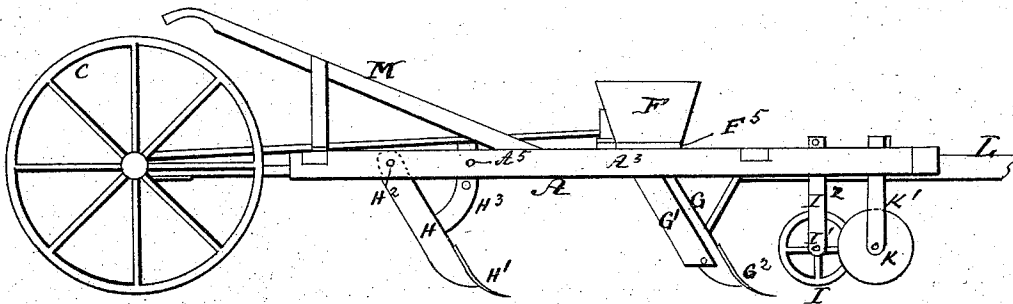


Fig 4

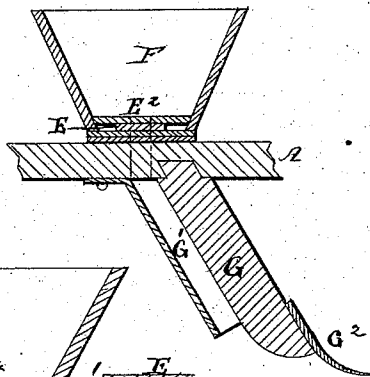
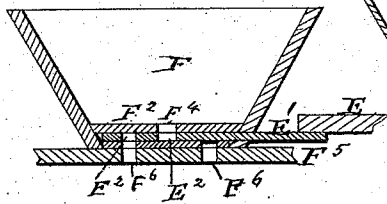


Fig 5.



Witnesses
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UNITED STATES PATENT OFFICE.

TAYLOR BARTON, OF SHELBYNA, MISSOURI.

IMPROVEMENT IN CORN-PLANTERS AND CULTIVATORS.

Specification forming part of Letters Patent No. **156,528**, dated November 3, 1874; application filed July 3, 1874.

To all whom it may concern:

Be it known that I, TAYLOR BARTON, of Shelbyna, in the county of Shelby and State of Missouri, have invented certain new and useful Improvements in Corn-Planters and Cultivators; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to an improved combined self-dropping corn-planter and cultivator, the nature of which will be hereinafter fully described.

In the accompanying drawings, Figure 1 represents a plan, Fig. 2 an under-side view, Fig. 3 a side view, Figs. 4 and 5 detail views, of apparatus constructed according to my invention.

A represents the main frame of the machine, which is composed of a series of bars or timbers, $A^1 A^2 A^3$, and supports and carries the working parts. At the rear end of this frame A a pair of extending arms, B B, are arranged, the front ends of which are connected to the rear timber A^1 , and the cross-bar A^4 , while at their rear ends they are provided with bearings B^1 , for the reception of the crank-axle C^2 , upon which are mounted the supporting-wheels $C C^1$. The wheel C is fixed rigidly on the crank-axle C^2 ; while the wheel C^1 is arranged to turn freely in bearings formed on the end of the axle C^2 . On the axle C^2 a crank, C^3 , is formed, to which is connected, with capability of movement thereon, one end of a rod, C^4 , the other end of which is connected to a crank-lever, D, which at D is pivoted to the cross-bar A^4 , while it is, by pin-joint D^3 , connected to a sliding bar, E, extending nearly across the apparatus, as shown by Fig. 1. At each end this bar E is provided with perforated slides E^1 , which are arranged to work in grooves or channels formed beneath the false bottoms F^2 of the hoppers F. In the center of the false bottoms F^2 of the hopper F a hole or aperture, F^4 , is formed in a line with the center of the apertures E^2 of the slides E^1 , and beneath the

slides E^1 a platform, F^5 , is arranged, which forms the bottom of the hopper F. In this platform F^5 is formed a pair of apertures, F^6 , so placed that they may alternately be coincident with one or the other of the apertures E^2 of the slides E^1 , as indicated by Fig. 5. The hoppers F are connected to the platforms F^5 , and the platforms are supported, with capability of removal and replacement, on the platform A, by means of nuts and bolts, or other equivalent means; the object of this arrangement of apertures and slides being that a given quantity of grain may be allowed to pass, at intervals, through the aperture F^4 into one of the apertures E^2 of the slides E^1 , from which, in the to-and-fro motion of the bar E and slides E^1 , the corn is discharged, through the holes F^6 , to the spouts G^1 , formed in the rear of the standards G, the lower front ends of which are provided with shovels G^2 , for opening the ground. In the rear, and on either side, of the shovels or teeth G^2 other teeth or shovels, H^1 , are arranged for the purpose of covering the seed. These shovels H^1 , at their upper ends, are connected to standards H, which at H^2 are pivoted to the bars A^3 ; while at their front side they are provided with a segmental bracket, H^3 , which is arranged to slide in a slot, A^4 , in the bar A^3 . The bracket H^3 is provided with a series of holes, A^4 , through which a pin, A^5 , supported in the bar A^3 , passes; the object of this segmental bracket H^3 being to allow of the adjustment of the position of the shovels H^1 . In the front of the apparatus two small gage-wheels, I I, are arranged for the purpose of regulating the depth to which the shovels or plows $G^2 H^1$ shall enter the ground. The gage-wheels I are supported in bearings I^1 formed in the lower ends of standards I^2 , which, at their upper ends, are connected, with capability of adjustment vertically, to the cross-bars A^3 . K are revolving cutters, arranged slightly in front of the wheels I, and in a line with the center of the shovels G^2 . These cutters K are supported in bearings formed in the ends of the standards K^1 , which are adjustable vertically in slots formed for the same in the bars A^2 ; the object of the cutters K being to sever any stalks or weeds that may come in the way of the shovels G^2 . L is a tongue or pole for

the purpose of hitching horses to for driving the machine; and M M are handles for guiding the apparatus.

When it is wished to employ the machine as a corn-planter, the parts are arranged as shown by Figs. 1, 2, and 3, and as hereinbefore described; but when it is required to employ the apparatus as a cultivator only, it is simply necessary to remove the wheels C C¹ and the corn-dropping mechanism, and to shift the two outer shovels H¹, with their standards H and beams A³, from the position shown by Figs. 1 and 2 in full lines to the position shown by dotted lines in Fig. 2, leaving the shovels G² on the outside of the machine.

The pins employed for connecting the standards of the plows to the framing A are formed of wood, in order that, in the event of the shovels striking any unyielding substance, the pins may be readily broken, and thereby allow of the plows turning out of the way of such obstacles, and passing free without breaking the machine.

The various parts of the frame A are connected together, by bolts and nuts, to facilitate the removal and replacement of the various parts when necessary.

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

The combination, with the frame A, provided with gage-wheels I and revolving cutters K, hinged standards H, brackets H³, and shovels H¹, of the wheels C C¹, connecting-rod C⁴, crank-lever D, bar E, slides E¹, hoppers F, standards G, spouts G¹, and shovels G², the whole being constructed and operating substantially as set forth.

In testimony that I claim the foregoing as my own invention, I affix my signature in presence of two witnesses.

TAYLOR BARTON.

Witnesses:

CHAS. M. KING,
F. P. JACKSON.