

(No Model.)

2 Sheets—Sheet 1.

H. E. FAIRCHILD.
CORN PLANTER.

No. 564,604.

Patented July 28, 1896.

Fig. 1.

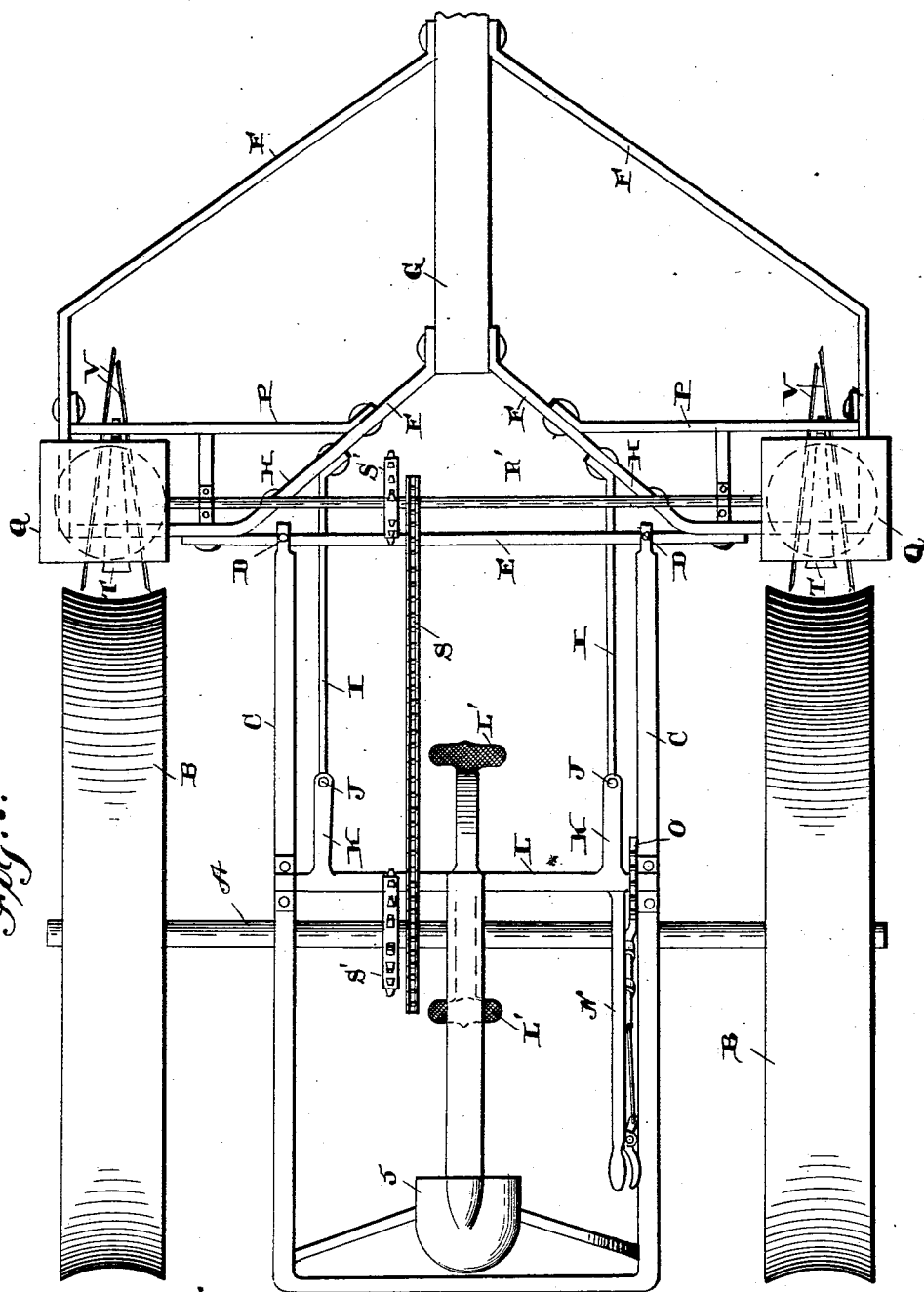
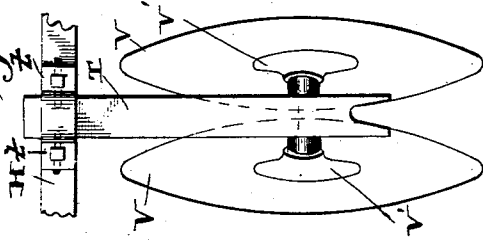


Fig. 5.



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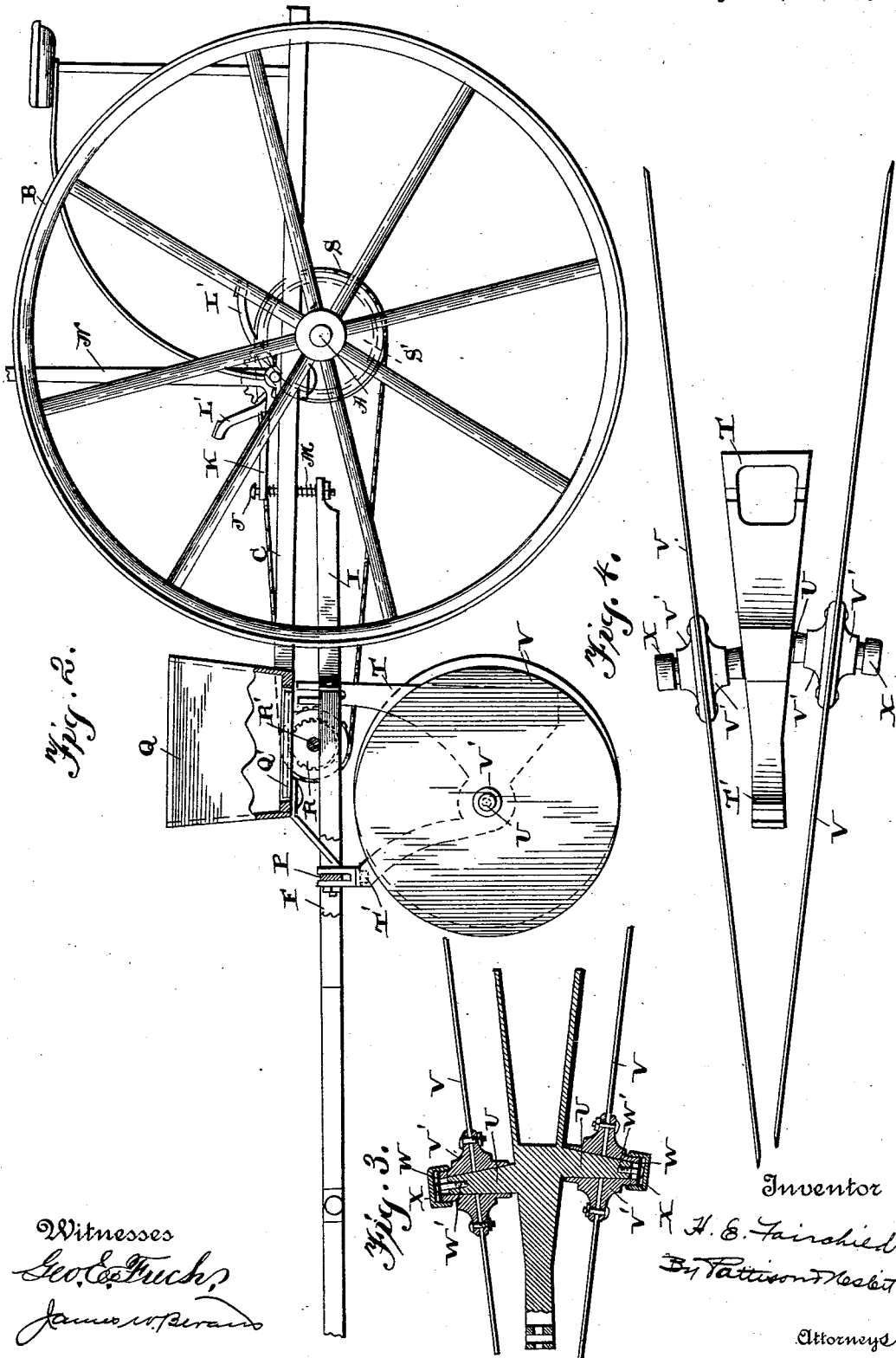
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UNITED STATES PATENT OFFICE.

HERMAN E. FAIRCHILD, OF DILLER, NEBRASKA.

CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 564,604, dated July 28, 1896.

Application filed August 19, 1895. Serial No. 559,811. (No model.)

To all whom it may concern:

Be it known that I, HERMAN E. FAIRCHILD, of Diller, in the county of Jefferson and State of Nebraska, have invented certain new and useful Improvements in Corn-Planters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

This invention pertains to improvements in corn-planters, and the objects of the same are to provide a simple and durable adjustable frame for the machine, and also to provide planting-shoes of improved construction.

The invention consists in the novel features of construction hereinafter fully described and claimed, and illustrated by the accompanying drawings, in which—

Figure 1 is a plan view of the machine. Fig. 2 is a side elevation of the same. Figs. 3, 4, and 5 are detail views of the planting-disks.

A designates the axle, to which the drive-wheels B are secured. The parallel bars C have suitable bearings upon their under sides for the rotatable axle, the said bars being here shown as formed of a single piece of metal, and provided at their forward ends with eyes D. Extended through the said eyes is the transverse bar E, which at its end is secured to the rear side of the angular frame F, the latter being bolted to and extended rearward from opposite sides of the tongue G.

Projected backward from the rear bars H of the frames F are arms I, carrying pins or bolts J, projecting vertically from the rear ends thereof. These pins or bolts J extend upward through the forward perforated ends of arms K, carried by the transverse rock-shaft L. Springs M are coiled about bolts J and interposed between arms I and K, as shown. The rock-shaft L carries and is operated by hand-lever N, and by means of the ratchet mechanism O said rock-shaft may be held in the desired adjustment. Thus it will be seen that by means of the rock-shaft and intervening mechanism the forward portion of the machine carrying the planting devices may be readily adjusted. Foot-rests L' project from the rock-shaft, both front and rear,

so that the movement or adjustment of the same may be greatly assisted by the operator pressing thereon by his foot, according to the direction which it is desired to adjust the planter.

Bars P traverse the frame F, and supported by these bars P, and also by the rear bars H of the frames, are the seed-boxes Q, and in the bottoms of these boxes are the perforated seed-dropping disks Q'. The under sides of these disks are cogged, and engaging the same are pinions R on the extremities of shaft R', which is actuated by means of drive-chain S, passing around a sprocket-wheel thereon, as well as a sprocket on axle A. A second set of sprockets S' are arranged upon the axle and shaft for the purpose of changing the speed of the planting-disks if desired.

The planting-disks drop the seed into the seed-conductors in the rear sides of the shanks or supports T. The said shanks are secured at their upper ends to the rear sides of bars H, and are strengthened in their respective positions by the forwardly-extending braces T', leading to frames F.

Projecting from opposite sides of support T are the spindles U, the latter preferably extending outward at right angles to the sides of the shanks, and adapted to rotate on said spindles are the furrow-disks V, having the sectional metallic hubs V', which are held in place upon the spindles by the washers W and the screws W'. Screw-caps X are secured over the ends of the hubs, and inclose the screws and washers so as to exclude dirt therefrom, and also for the purpose of retaining the lubricant. It will be noticed that the furrow-disks are arranged out of line, with one forward of the other, so as to throw the disk carried by the forward spindle slightly ahead of the other disk, both disks being of the same diameter. Thus the disks are made to overlap at their forward edges, and thereby serve to pulverize and prepare the ground for the seed in a most effectual manner. It will be noticed that the ears t for securing the shanks or supports in position are provided with horizontal slots for securing-bolts, so that said supports may be adjusted laterally in either direction as desired. The seed drops from the planting-boxes immediately to the rear of the disk spindles, and is thus

introduced directly into the path prepared by the forward moving and rotating disk.

By means of the adjusting mechanism before described the depth to which the furrow-disks cut may be readily regulated. The planter described is quite as well adapted for work in listed land as in that which has been plowed, and the cutting-disks are most effectual in working in sod, as the same readily cut therethrough.

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

1. The combination of the pole, the rearwardly-diverging frames on opposite sides of the pole, each frame consisting of the parallel bars F and H, the bar E connecting the rear ends of the diverging frames, the rearward framework, and the planting and operating mechanisms, substantially as shown and described.

2. The combination of the pole, the laterally-extended frames on opposite sides of the rear end thereof, the bars P in said frames, the shanks T bifurcated at their forward upper ends where they embrace the said bars and on which they are adjustable in a line transverse the machine, the bifurcated rear ends of the shanks embracing the rear bars

of said frames, and planting and operating mechanism, substantially as shown and described.

3. In a planter, the combination with the frame including parallel bars extending transverse the machine, of the dropping-shanks having the front and rear vertical extensions slotted downward from their upper extremities to embrace said bars on which they are adjustable toward and away from each other transverse the frame substantially as shown and described.

4. The combination of the pole, the frames F on opposite sides thereof, the planting mechanism carried by the said frames, the transverse bar connecting the rear sides of the frames, the axle and drive-wheels, the forwardly-extended frame carried by the axle and loosely secured at its ends to the said connecting-bar, and a means for adjusting the frames with relation to each other, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

HERMAN E. FAIRCHILD.

Witnesses:

H. B. FAIRCHILD,
H. P. COLMAN.