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A. E. STARRETT.

MARKER FOR CORN PLANTERS.

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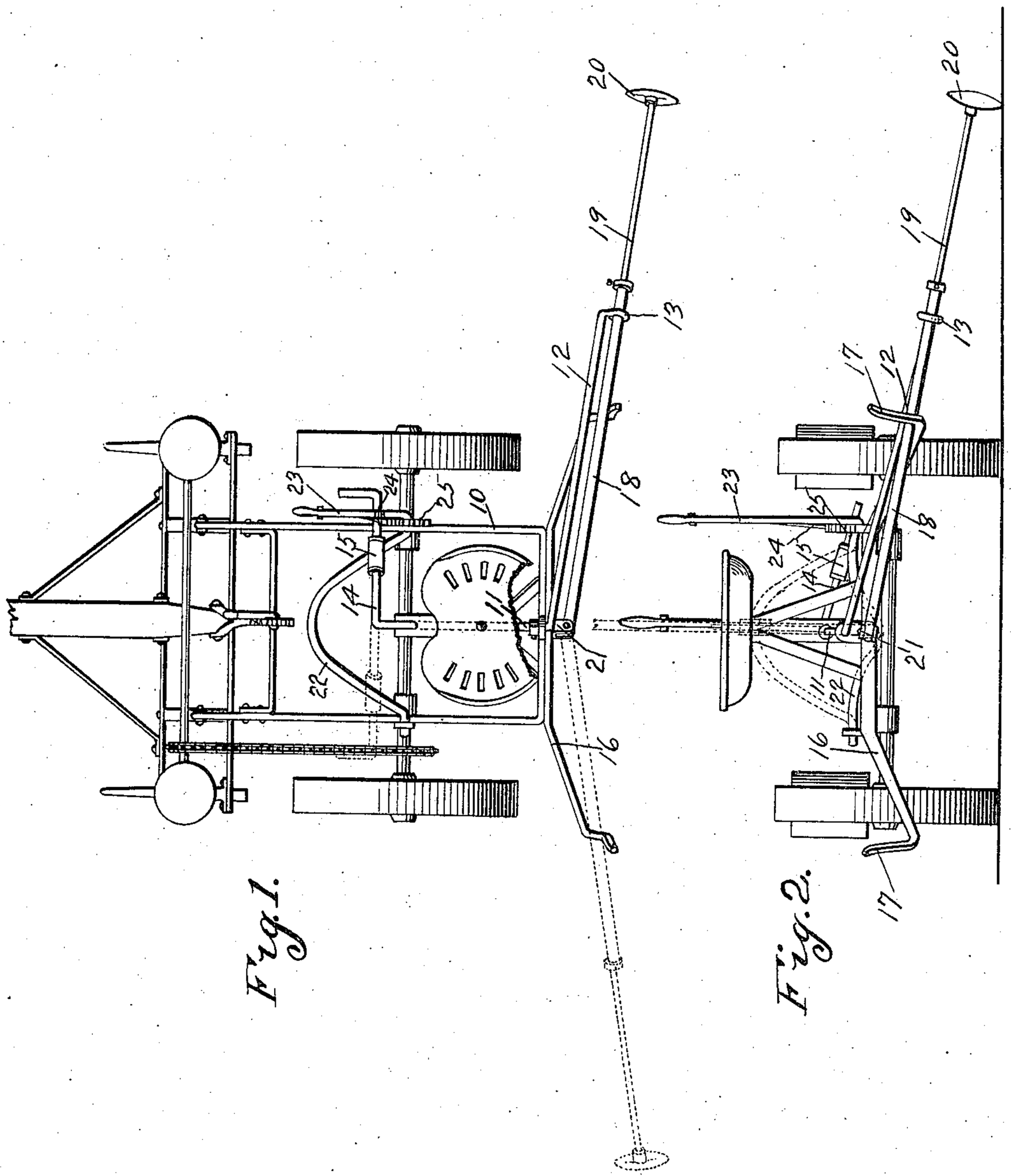

Fig. 1.

Fig. 2.

Witnesses.

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UNITED STATES PATENT OFFICE.

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MARKER FOR CORN-PLANTERS.

No. 844,290. Specification of Letters Patent. Patented Feb. 12, 1907.

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To all whom it may concern:

Be it known that I, AARON E. STARRETT, a citizen of the United States, residing at Kellogg, in the county of Jasper and State of Iowa, have invented a certain new and useful Marker for Corn-Planters, of which the following is a specification.

The object of my invention is to provide a marker designed to be pivoted to the rear of a corn-planter and to be capable of quick and easy reversal from one side of the machine to the other to produce a mark on either side of the machine, and, further, to provide means of simple, durable, and inexpensive construction whereby the operator on the driver's seat may quickly and easily throw the marker from one side to the other or maintain it in an upright position.

My invention consists in the construction, arrangement, and combination of the various parts of the device whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 shows a plan view of a corn-planter provided with my improved marking device. The dotted lines in said figure show the marker in a reversed position. Fig. 2 shows a rear elevation of same. The dotted lines show the marker and marker-operating devices in position with the marker elevated.

Referring to the accompanying drawings, I have used the reference-numeral 10 to indicate the marker-frame. Supported longitudinally of the frame near its rear end is a shaft 11, on the rear end of which is an arm 12, having a loop 13 at its outer end, and on the forward end of said shaft 11 is a crank-arm 14, having a roller 15 thereon. Fixed to the rear of the frame 10 are two supporting-arms 16, extending laterally and rearwardly, with upturned rear ends 17. The marker-arm comprises a body portion 18 and an extension-piece 19, telescopically connected with it and having a marker-disk 20 on its outer end. The inner end of said body portion is pivoted in a slotted pin 21, so that the marker-arm may move forwardly and rearwardly relative to the marker 10, and the said pin is pivotally connected with the frame 10 to be capable of movement in a plane transversely of the frame. The said loop 13 of the arm 12 encircles the said marker-arm, so that the marker-arm is moved in unison with said arm 12.

An arched shaft 22 is pivoted in the frame 10 adjacent to the crank-arm 14 and has its central portion curved or bowed forwardly, and on one end thereof is a lever 23, provided with a pawl 24 to engage a sector 25, fixed to the frame 10, whereby the said lever may be locked in different positions. The arched shaft 22 is so arranged and disposed relative to the roller 15 that when the arched portion of the shaft is in a forwardly-inclined position the said roller will rest on one of the sides of said arched portion. Then when the lever 23 is moved rearwardly the roller will slide along the arch, and thus the crank-arm 14 will be elevated until the roller reaches the forwardly-inclined portion of the arch, and when the roller engages this inclined portion the crank-arm 14 will be supported by said arch in a substantially vertical position, and this will also cause the marker-arm to stand in the same position. If the operator imparts a rapid movement to the lever 23 when the roller 15 is just approaching the forwardly-curved portion of the shaft 22, then he will impart enough momentum to the marker to throw it past the center and permit it to descend by gravity to the other side of the frame. This obviously may be done in order to move the marker from either side of the frame to the other.

In practical use and assuming the parts of my attachment to be in the position shown in Fig. 1 it is obvious that the marker-arm will be firmly supported in the position shown, because the arm 16 will support it, and the end 17 thereof will prevent it from moving rearwardly. When the operator approaches the end of a field, he simply presses rearwardly upon the lever 23, thus moving the arched shaft 22 to throw the crank-arm 14 to a vertical position. If desired, it may be retained in this position until the machine has been reversed at the end of a field. It is then desirable to throw the marker to the other side of the frame, and this may be accomplished by having the operator grasp the lever 23 and permit the marker to drop by gravity until the roller 15 passes out of the forwardly-inclined portion of the arched shaft. Then by pulling rearwardly upon the lever 23 with a rapid motion sufficient momentum is imparted to the crank-arm 14 and

the marker to throw it to the side toward which it is desired to move it.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States therefor, is—

1. The combination of a planter-frame, a shaft extended longitudinally thereof, a crank-arm at the forward end of the shaft, a crank-arm at the rear end of the shaft, a marker-arm connected with the rear crank-arm and an arched shaft having a forwardly-curved portion at its center and designed to be pivoted to a planter-frame adjacent to the forward crank-arm and a lever for operating said arched shaft.

2. The combination of a planter-frame, and a shaft extended longitudinally thereof, a crank-arm at the forward end of the shaft, a crank-arm at the rear end of the shaft, a marker-arm connected with the rear crank-arm and an arched shaft having a forwardly-curved portion at its center and designed to be pivoted to a planter-frame adjacent to the forward crank-arm, a lever for operating said arched shaft and means for securing the arched shaft in different positions.

3. The combination of a planter-frame, of a rock-shaft extended longitudinally thereof, a crank-arm at the forward end of the rock-shaft, a crank-arm at the rear end thereof, a marker-arm pivoted to the frame and connected with said rear crank-arm, a shaft pivoted to the frame adjacent to the forward crank-arm and having an arched body portion provided with a forwardly-inclined central portion, said arched shaft designed to engage the forward crank-arm and to move it toward a vertical position from either side of the machine-frame.

4. The combination of a planter-frame, of a rock-shaft extended longitudinally thereof, a crank-arm at the forward end of the rock-shaft, a crank-arm at the rear end thereof, a marker-arm pivoted to the frame and connected with said rear crank-arm, a shaft pivoted to the frame adjacent to the forward crank-arm and having an arched body portion provided with a forwardly-inclined central portion said arched shaft designed to engage the forward crank-arm and to move it toward a vertical position from either side of the machine-frame, a lever fixed to the arched shaft, a pawl carried by said lever and a sector fixed to the machine-frame to be engaged by the pawl.

5. The combination of a planter-frame, of a rock-shaft extended longitudinally thereof, a crank-arm at the forward end of the rock-shaft, a crank-arm at the rear end thereof, a marker-arm pivoted to the frame and connected with said rear crank-arm; a shaft pivoted to the frame adjacent to the forward crank-arm and having an arched body portion provided with a forwardly-inclined central portion, said arched shaft designed to engage the forward crank-arm and to move it toward a vertical position from either side of the machine-frame, a lever fixed to the arched shaft, a pawl carried by said lever, a sector fixed to the machine-frame to be engaged by a pawl and two arms fixed to the rear of the machine-frame extended laterally and rearwardly and having upturned ends to engage and support the marker-arm.

6. A marker for planters, comprising a longitudinal shaft, a marker-arm connected therewith and capable of movement from one side of the planter to the other, a crank-arm at the forward end of the shaft, a transverse shaft having an arched central portion, designed to engage the crank-arm, and means for rocking the arched shaft.

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Witnesses:
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