

(No Model.)

H. BOWERS.
LAND MARKER.

No. 529,585.

Patented Nov. 20, 1894.

Fig. 1.

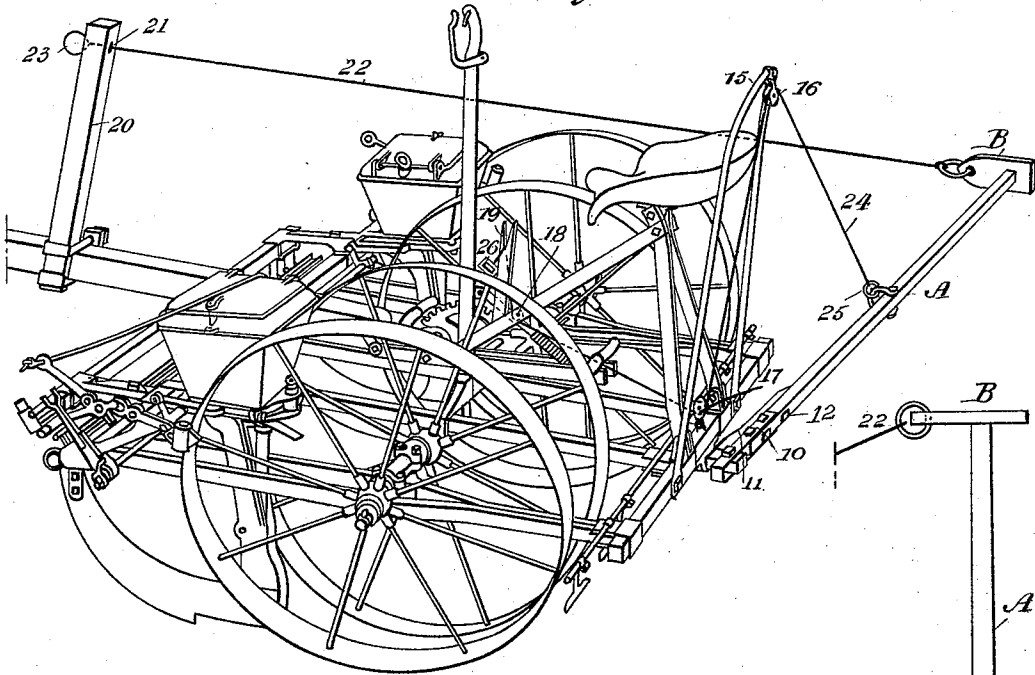


Fig. 3.

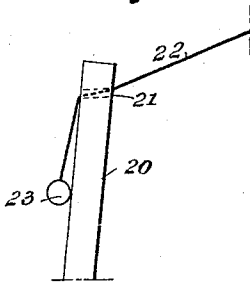


Fig. 4.

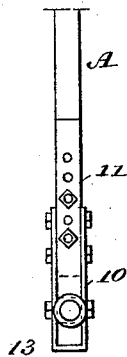
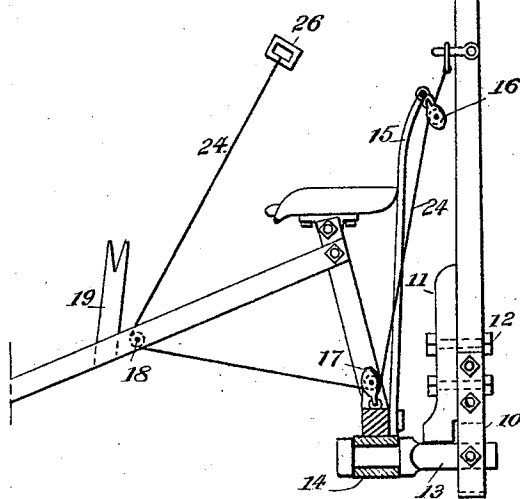


Fig. 2.



WITNESSES:

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HENRY BOWERS, OF MILTON, WISCONSIN.

LAND-MARKER.

SPECIFICATION forming part of Letters Patent No. 529,585, dated November 20, 1894.

Application filed September 1, 1894. Serial No. 521,916. (No model.)

To all whom it may concern:

Be it known that I, HENRY BOWERS, of Milton, in the county of Rock and State of Wisconsin, have invented a new and Improved Land-Marker, of which the following is a full, clear, and exact description.

My invention relates to an improvement in land markers, adapted for use with planters, especially corn planters, and it has for its object to provide a simple and conveniently operated device, whereby the driver, without stopping the team or leaving the seat, may expeditiously elevate the marker to any desired position above the ground, or throw the marker from one side of the machine to the other.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of a corn planter having the improvement applied thereto. Fig. 2 is a side elevation of the marker in an elevated position, or in a position to be transferred from one side to the other. Fig. 3 is an elevation of the front standard of the device, illustrating the position of the draft rope when the marker is in elevated position; and Fig. 4 is a front view of the inner end of the marker arm.

In carrying out the invention, the marker arm A is provided at its outer end with the usual marking shoe B. The inner end of the said marker arm is provided with a strap 10, and the said inner end may be properly termed the heel of the arm, the strap being so located as to be an extension of its heels. A block 11, is adjustably secured upon what may be termed the forward face of the heel portion of the marker arm, the block being secured by bolts 12, or their equivalents, the attachment being so made that the block is capable of longitudinal adjustment upon the arm. The marker arm may be pivotally attached through the medium of its strap 10, as shown in Fig. 1, to the rear extension of the planter, or, as shown in Fig. 2, a stud 13 may be piv-

oted in the strap 10 and journaled in a box 14, located upon either the upper or under surface of the rear portion or cross bar of the planter.

At the rear of the driver's seat, or at the rear end of the planter, an arched standard 15, is preferably secured, extending upward above the driver's seat, and at the top of this standard a pulley 16, is located, while a second pulley 17, is placed about centrally between the members of the standard, upon the frame of the machine, and a third pulley 18, is located upon any convenient support in front of the driver's seat, or in any other convenient position, and adjacent to this latter pulley a keeper 19, is erected, being ordinarily attached to the planter frame, the said keeper consisting of an upright having a V-groove in its upper end. A second standard 20, is secured in any suitable or approved manner upon the tongue or pole of the planter, the said forward standard being provided with an opening 21, extending through from front to rear at the top. A draft rope 22, is attached to the forward end of the marker shoe B, and the said draft rope is passed through the opening 21 in the forward standard, and has a weight 23 secured to its forward end. The standard 20 is a convenient support for the rope 22, since the driver when hitching on his team may pass one driving line each side of the standard and thereby avoid all entanglement with the said rope 22. The object of the weight 23 is to take up the slack and thereby prevent the rope from becoming entangled with the driver or the machine.

A hoist rope or cable 24, is attached to about the central portion of the marker arm A through the medium of a bail or its equivalent. This rope or cable is passed over the upper pulley 16, is then carried to a contact with the lower pulley 17 and likewise in contact with the forward pulley 18, and at its free end said rope or cable is provided with a handle 26, which handle is held within convenient reach from the driver's seat by placing the rope or cable in a fork at the upper end of the keeper 19, whereby the keeper will prevent the rope or cable from slipping.

The adjustable block 11 upon the marker arm, when adjusted in direction of the heel of the said arm, will force the marker rear-

ward, an advantage often desirable, since it makes a wider mark in that way upon the land under many conditions of the soil, and a wide mark is desirable since it is more plainly visible than a narrow one. The block 11 likewise serves another purpose, as by engaging with the stud 13 the marker is prevented from falling forward on the standard during the time it is being shifted from side to side.

- 10 In the operation of this device, the driver by grasping the handle 26 of the hoisting rope and drawing it upward and rearward, may at any time raise the marker as far as may be desired from the ground, and the marker will
15 be held in that position by again restoring the hoisting rope to the keeper; and as the marker is elevated the slack of the draft rope will be taken up by its weight 23.

- Another manner of operating this device,
20 consists in shortening the hoist rope until the handle 26 comes in contact with the pulley 18. The hoist rope is then drawn upward and rearward about a foot and the handle is lodged in the keeper 19. By this means the
25 shoe of the marker is elevated about two feet from the ground. After turning the team the handle is given a quick jerk causing the marker to be instantly transferred to the opposite side of the machine. Owing to the
30 force of momentum of the marker it is necessary to pull the hoist rope but a short distance.

- When the marker is drawn to the vertical position shown in Fig. 2, it will fall over to
35 the side of the machine opposite that from which it was removed. It will be understood that the upper pulley 16 may be attached to the driver's seat, or to a standard serving as a support for the seat, but the said pulley 16
40 is preferably placed higher than the seat as it renders the operation of shifting the marker from side to side much easier.

- Having thus described my invention, I claim as new and desire to secure by Letters
45 Patent—

1. A marking device for planters, the same consisting of a marker arm adapted for pivotal attachment to a planter and provided with a regulating block at its pivoted end,
50 whereby it may be moved rearward and will be prevented from slipping forward on the

machine when elevated, the marker arm being provided at its outer end with the customary shoe, a standard adapted for attachment to the pole of the planter, a draft rope
55 connected with the shoe, passed through the standard and provided with a weight at that end, and a device, substantially as described, for hoisting the arm, as and for the purpose specified.

2. The combination, with a planter, a standard secured upon the forward portion of the planter, a keeper located adjacent to the seat of the planter, and pulleys located upon the planter at the rear of the seat and forward
65 thereof, of a marker arm pivoted to the rear of the planter, and provided with a regulating block adjustably attached thereto, adapted for engagement with the pivot of the arm, a hoist rope attached to the arm, passed over
70 the pulleys on the planter and adapted for engagement with the keeper, and a draft rope attached to the marking shoe of the arm and passed through the forward standard on the planter, being provided at its forward end
75 with a weight, as and for the purpose set forth.

3. The combination, with a planter, a standard secured to its forward portion, having an opening near its top, a standard secured to
80 the rear end of the planter at the rear of the driver's seat, a pulley secured at the top of the rear standard, a second pulley secured at the base of the same, and a keeper secured upon the planter in front of the driver's seat,
85 comprising a bar having a V-groove in its upper end, of a marker the arm of which is pivotally attached to the rear of the planter, a regulating block located upon the arm, and adapted for engagement with the pivot there-
90 of, a hoist rope attached to the arm, passed over the said pulleys, entering the V-groove of the keeper and terminating in a handle, and a draft rope attached to the shoe of the planter and passed through the opening in
95 the forward standard, being provided with a weight at its forward end, as and for the purpose specified.

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Witnesses:

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