E. E. YOUTZ.

LAND MARKER.

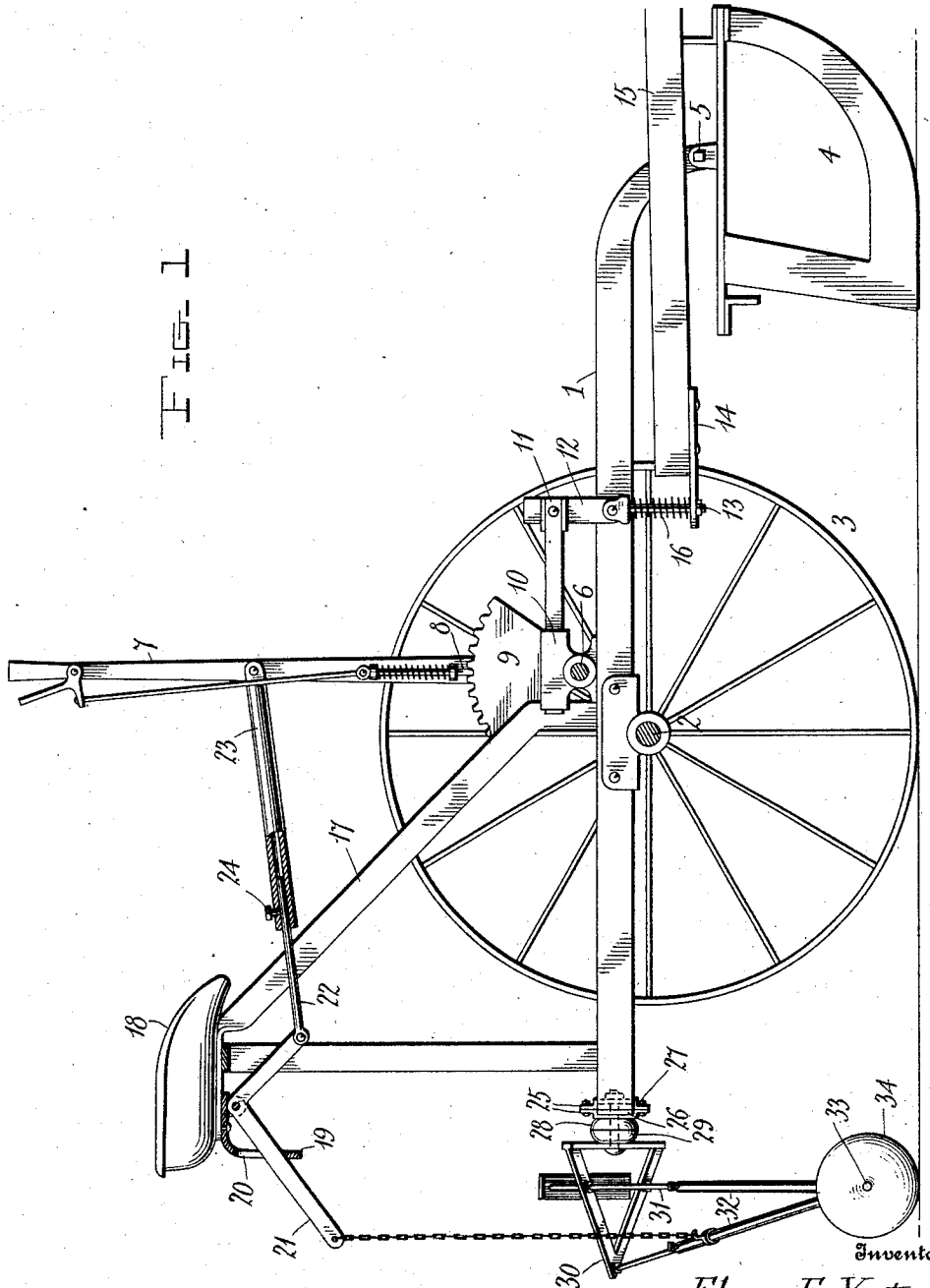
APPLICATION FILED APR. 13, 1908.

902,128.

Patented Oct. 27, 1908.

2 SHEETS—SHEET 1.

FIG. 1




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Witnesses

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2 SHEETS—SHEET 2.

FIG. 2

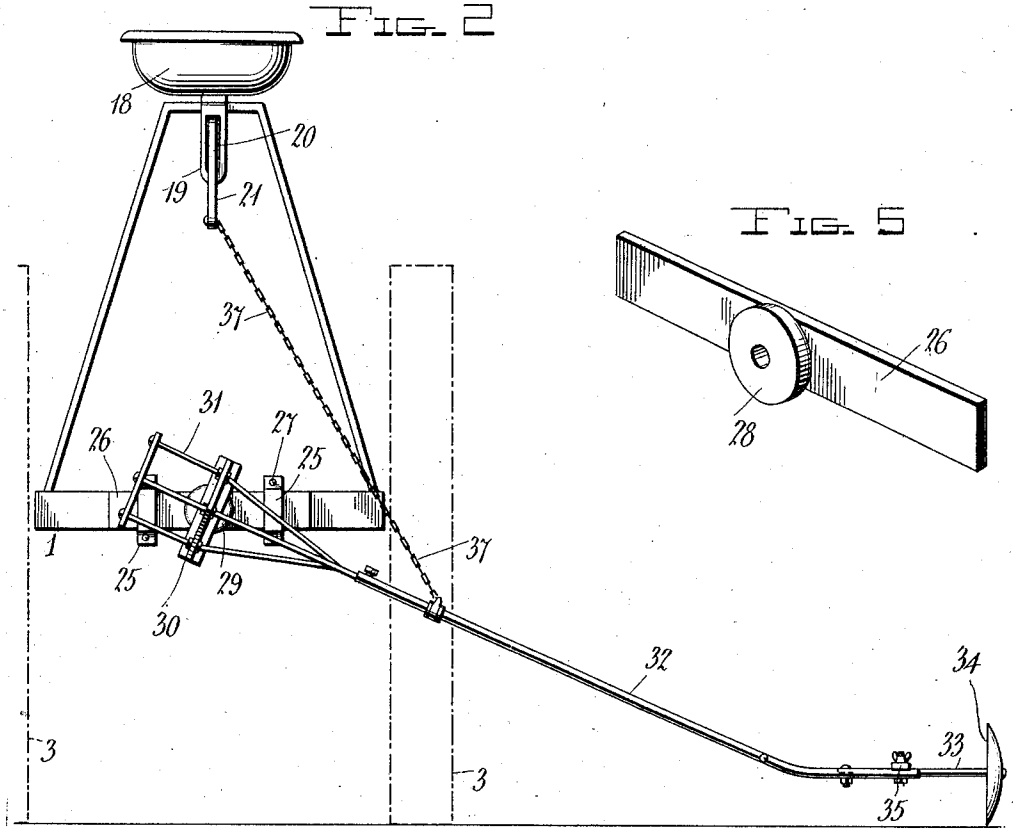



FIG. 5




FIG. 3

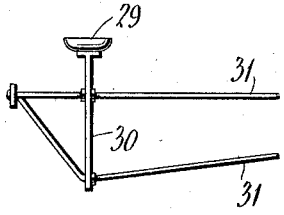
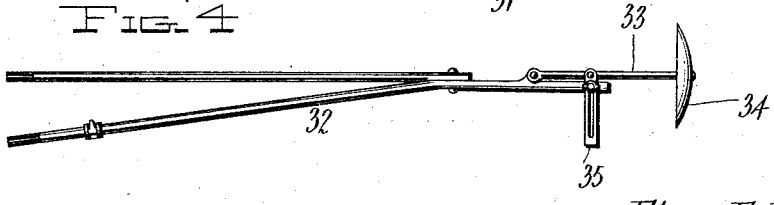



FIG. 4




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# UNITED STATES PATENT OFFICE.

ELMER E. YOUTZ, OF CASNER, ILLINOIS.

## LAND-MARKER.

No. 902,128. Specification of Letters Patent. Patented Oct. 27, 1908.

Application filed April 13, 1908. Serial No. 426,770.

*To all whom it may concern:*

Be it known that I, ELMER E. YOUTZ, a citizen of the United States, residing at Casner, in the county of Macon, State of Illinois, have invented certain new and useful Improvements in Land-Markers; 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 appertains to make and use the same.

The present invention has reference to land-markers, and it aims, generally, to provide an exceedingly simple, inexpensive and efficient device of that nature designed primarily for attachment to the frame of a corn-planter and adapted to be swung to either side thereof, and to be raised and lowered into and out of operative position simultaneously with the corresponding movement of the planter runners or furrow openers.

More especially, the invention resides in the formation of the marker in two parts or sections, which are detachably connected together, so as to permit the marker to be taken to pieces and packed into a small space when not in use; in the specific construction of each section of the marker; and in the particular manner in which one section of the marker is attached to the machine frame, and in which the marking disk is secured to the other section.

The preferred embodiment of the invention is illustrated in the accompanying drawings, in which corresponding parts or features, as the case may be, are designated by the same reference numerals in the several views.

Of the said drawings: Figure 1 is a side elevation of the complete invention. Fig. 2 is a rear elevation. Figs. 3 and 4 are enlarged detail views of the two members of the marker. Fig. 5 is a similar view of the clamp to which the inner member of the marker is pivoted.

Referring more particularly to the drawings, 1 designates the main frame, 2 the axle, 3 the ground wheels, and 4 the runner frame of a corn-planter of any conventional type, the runner frame having a pivotal connection 5 with the front ends of the side sills of the frame 1.

The above mentioned sills are provided with bearings in which are journaled the ends of a transversely-arranged shaft 6 rocked by a hand lever 7 secured thereto at its lower end and carrying a spring-actuated dog 8 adapted for engagement with the teeth of a segmental rack 9 mounted upon the adjacent sill. The shaft 6 has rigidly secured thereto intermediate its ends, a sleeve 10 in which is secured the rear end of a longitudinally-disposed bar 11 whose front end is provided with a depending arm 12 connected by means of a bolt 13 with a strap 14 which extends rearwardly from the tongue 15. The bolt 13 is embraced by a coil-spring 16, whereby a yielding support for the rear end of the tongue is afforded.

Upon the central longitudinal sill of the main frame is mounted a supporting bar 17 to whose laterally-bent upper end the seat 18 is attached. Said bent end has secured thereto a depending bowed strap 19 in which a longitudinal slot 20 is formed, the front end of said strap being bent directly downwards to provide a finger to which is pivoted at its apex an angle lever 21. The rear arm of said lever extends through the slot 20 above referred to, while its front arm is pivotally connected to the projecting end of the inner member 22 of a rod whose outer member 23 is provided with a longitudinal socket for the reception of the member 22 and is pivoted at its front end to the lever 7, the telescopic connection between the members 22 and 23 of said rod permitting the length of the latter to be varied at will. Said rod members are held in adjusted position with respect to each other by means of a set-screw 24.

The cross-beam which connects the rear ends of the sills of the frame 1 has secured centrally thereto by means of clamps 25 a bracket 26. These clamps, which are approximately U-shaped, have their legs extending across the upper and lower edges of the cross-beam and the bracket 26, the legs of each clamp being drawn towards each other by means of a threaded bolt 27, or similar device. The bracket is provided further with a hemi-spherical bearing member 28 having an axial perforation formed therethrough, said perforation registering with a perforation formed through a similar bearing member 29 formed upon the rear side of the triangular frame 30 which forms one element of the marking apparatus as hereinafter described, said bearing members being connected together by a pivot pin or

bolt which passes through the perforations formed therein.

The inclined side or hypotenuse of the frame 30 has secured thereto at one side a pair of converging rods 31 which fit in the longitudinal sockets formed in the arms 32 of the V-shaped outer member of the marker, thus affording a telescopic connection between the members of the marker and permitting the length of the latter, as a whole, to be varied at will, the retention of the marker members with respect to each other being effected by set screws or similar devices which operate in the usual manner. One of the arms 32 of the outer member is continued beyond the adjacent end of the other arm and is provided towards its extremity with a swinging rod 33 pivoted at its inner end thereto and carrying at its outer end a revoluble marking wheel, 34 said rod being further connected with said arm by means of a longitudinally slotted strap 35 pivoted to the rod at one end. Through the slot formed in said strap, extends a threaded pin carried by said arm and provided with a wing nut. Owing to this construction, it will be apparent that the wheel-carrying rod may be set at any desired angle within the limits of the slot with respect to said arm.

The free end of the rear arm of the angle lever 21 has secured thereto one end of a chain or similar flexible element 37 whose opposite end is provided with a hook adapted for detachable engagement with one or the other of the rods 32, by reason of which construction it will be apparent that when the lever 7 is swung towards the occupant of the seat 18, the upward movement of the rear arm of said angle lever will have the effect of raising the marking wheel from the surface of the ground, the movement of said lever likewise effecting a tilting movement of the runner frame, by reason of the connection with the latter of the bar 11 which is carried by the sleeve 10 secured to the rock shaft 6 operated by said lever. The above described movement of the operating lever takes place generally when the machine is to be turned at the end of the field.

The marking apparatus, as a whole, may be readily swung from one side of the machine to the other, the pin which connects the bearing members 28 and 29 forming the pivot upon which the marker swings.

While the operating lever is designed primarily for effecting a tilting movement of the runner frame and a simultaneous movement of the marking wheel into inoperative position above the surface of the ground, it will be apparent that the latter movement may be effected when desired, without necessitating a corresponding movement on the part of the lever, by merely loosening the set screw 24 which retains the rod members 22 and 23 in adjusted position with respect to each other, and moving the first mentioned member outwardly of the last-mentioned member, whereupon the rear arm of the angle lever may be raised, and the desired movement of the marker effected.

What is claimed is:

1. In a corn planter, the combination, with the frame, and a transversely-disposed rock shaft carried thereby, of a marker pivotally connected with the rear end of the frame; a seat-supporting rod mounted upon said frame; a depending slotted strap secured to the upper end of said rod; an angle lever pivotally connected with said rod end and having its rear arm extending through the slot in said strap; a flexible connection between said lever arm and said marker, for moving the latter into and out of operative position when said lever is rocked upon its pivot; an operating lever; and a rod connected at opposite ends to the operating lever and to the front arm of the angle lever, for rocking the latter when the operating lever is swung in one direction or the other.

2. In a corn-planter, the combination, with the frame, and a transversely-disposed rock-shaft carried thereby, of a marker pivotally connected with the rear end of the frame; a seat-supporting rod mounted upon said frame; a strap secured centrally to the upper end of said rod and having its ends bent downwardly, the rear portion of said strap being provided with a longitudinal slot; an angle lever pivoted at its apex to the front end of said strap and having its rear arm extending through said slot; a flexible connection between said lever arm and said marker, for moving the latter into and out of operative position when said lever is rocked upon its pivot; an operating lever; and a rod connected at opposite ends to the operating lever and to the front arm of the angle lever, for rocking the latter when the operating lever is swung in one direction or the other.

3. In a corn planter, the combination, with the frame, and a transversely-disposed rock shaft carried thereby, of a marker pivotally connected with the rear end of the frame; a seat-supporting rod mounted upon said frame; a depending slotted strap secured to the upper end of said rod; an angle lever pivotally connected with said rod end and having its rear arm extending through the slot in said strap; a flexible connection between said lever arm and said marker, for moving the latter into and out of operative position when said lever is rocked upon its pivot; an operating lever; and a rod connected at opposite ends to the operating lever and to the front arm of the angle lever, for rocking the latter when the operating lever is swung in one direction or the other, said rod comprising a pair of telescoping members adjust-

ably connected together, whereby said angle lever may be rocked independently of the movement of the operating lever.

4. In a corn-planter, the combination, with a frame, and a transversely-disposed rock shaft carried thereby, of a marker pivotally connected with the rear end member of the frame, said marker comprising a triangular frame, a pair of longitudinally-socketed converging rods secured at their inner ends to said triangular frame, and a V-shaped member having its arms slidably fitted in the sockets in said rods, a marking-wheel attached to the apex of said member, and means for retaining said member in adjusted position with respect to said rods; an operating lever pivoted to said rock-shaft; and connecting devices between the operating lever and said marker, for raising the latter bodily into inoperative position when said lever is swung in one direction.

5. In a corn-planter, the combination, with a frame and a transversely-disposed rock-shaft carried thereby, of a bracket secured to the rear end member of the frame and provided with a perforated hemi-spherical bearing member; a triangular frame provided with a perforated hemi-spherical bearing member; a bolt passed through the perforations in said bearing members, for pivotally connecting said triangular frame with said bracket; a pair of longitudinally-socketed converging rods secured at their inner ends to said triangular frame; a V-shaped member having its arms slidably fitted in the sockets in said rods; a marking wheel rotatably attached to the apex of said member; means for retaining said member in adjusted position with respect to said rods; an operating lever pivoted to said rock-shaft; and connecting devices between the operating lever and one of said rods, for raising the marking-wheel into inoperative position when said lever is moved in one direction.

6. In a corn-planter, in combination, with a frame, a marker pivotally secured to the rear end member of the frame and comprising inner and outer members adjustably connected together, the outer member having a swinging rod pivoted thereto, a marking wheel rotatably carried by said rod; a pin carried by said outer member adjacent its free end; a strap pivoted at one end to said rod and provided with a longitudinal slot through which said pin projects; clamping means carried by said pin for engagement with said strap, to adjust the inclination of said rod to said outer member; an operating lever; and connecting devices between said lever and the inner member of the marker, for raising the latter bodily into inoperative position when said operating lever is moved in one direction.

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

ELMER E. YOUTZ.

Witnesses:
O. A. SAYLES,
WADE H. OWNBY.