W. R. COOK.

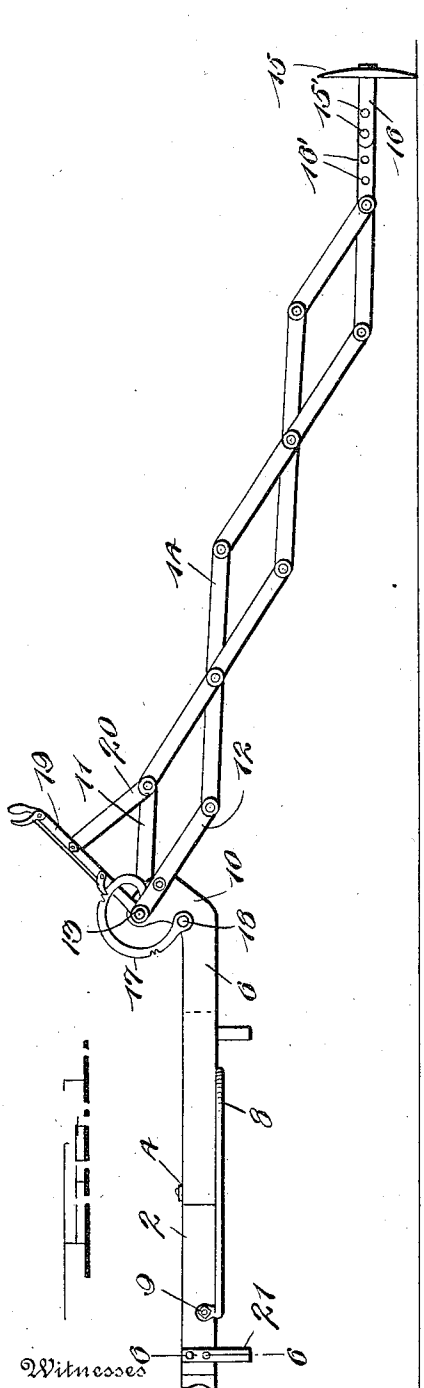
LAND MARKER FOR CORN PLANTERS.

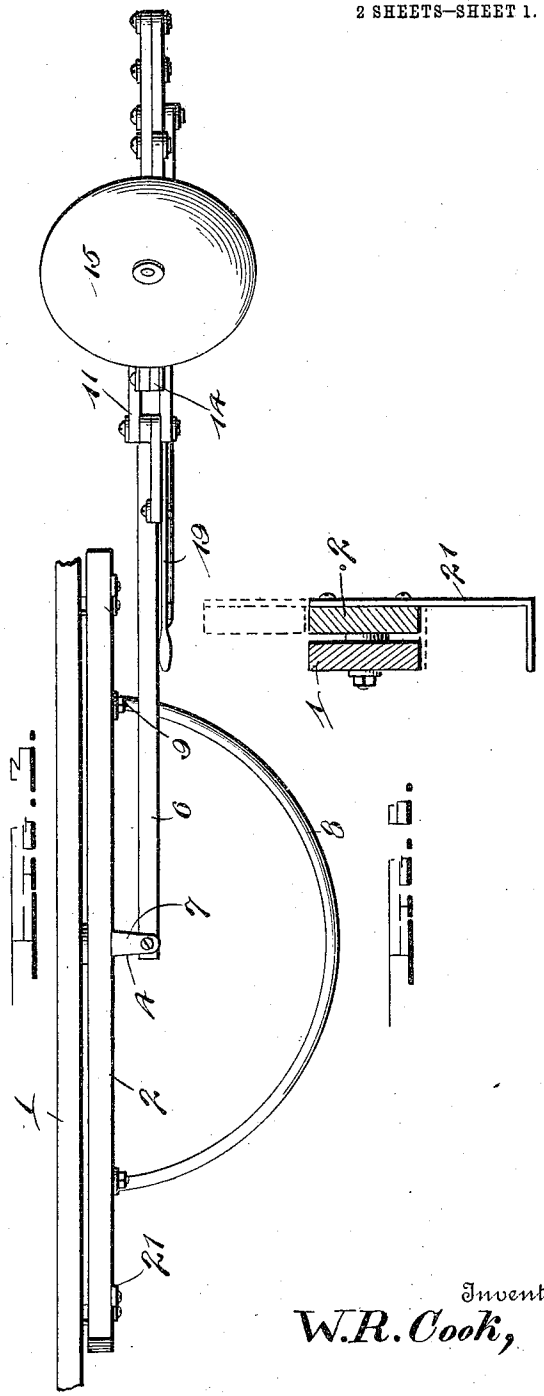
APPLICATION FILED JAN. 31, 1912.

1,046,559.

Patented Dec. 10, 1912.

2 SHEETS—SHEET 1.





Witnesses

Chas. L. Griesbauer.

A. B. Norton.

Inventor

W. R. Cook,

By Watson E. Coleman.

Attorney

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

W. R. COOK.

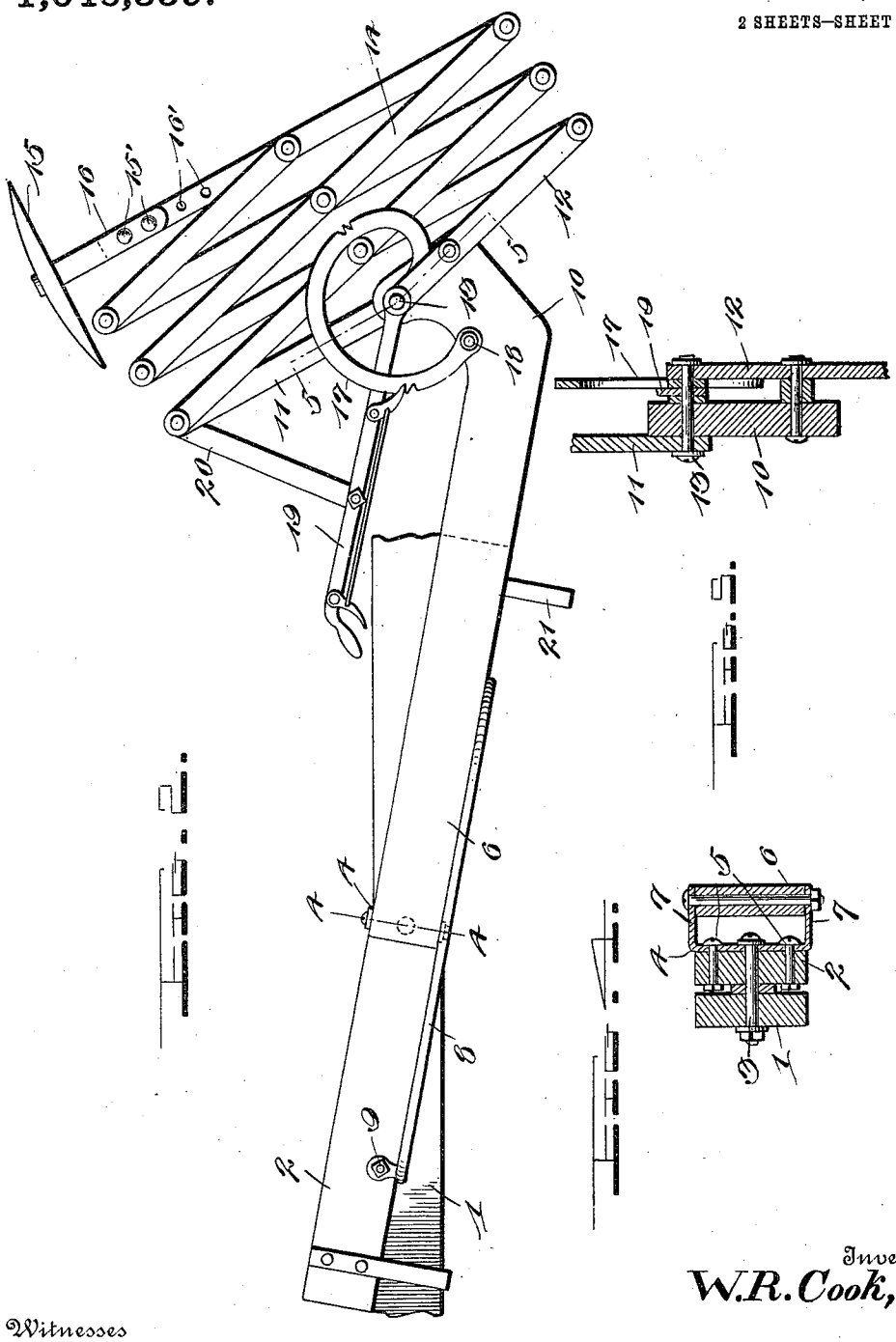
LAND MARKER FOR CORN PLANTERS.

APPLICATION FILED JAN. 31, 1912.

1,046,559.

Patented Dec. 10, 1912.

2 SHEETS—SHEET 2.



Inventor

W. R. Cook,

Witnesses

Chas. L. Griesbauer.

A. B. Norton.

By Watson E. Coleman.

Attorney

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM R. COOK, OF STREATOR, ILLINOIS.

LAND-MARKER FOR CORN-PLANTERS.

1,046,559. Specification of Letters Patent. Patented Dec. 10, 1912.

Application filed January 31, 1912. Serial No. 674,539.

To all whom it may concern:

Be it known that I, WILLIAM R. COOK, a citizen of the United States, residing at Streator, in the county of Lasalle and State of Illinois, have invented certain new and useful Improvements in Land-Markers for Corn-Planters, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to new and useful improvements in land markers for corn planters, and has for its object to provide improved means whereby the marker may be raised from one position preparatory to turning around at the ends of the field, swung around and laid down on the opposite side of the planter after the turn is made.

Another object of the invention is to provide a novel folding arm which can be folded into compact form and carrying a marker disk on the outer end thereof.

Another object of the invention is to provide novel means whereby the arm carrying the marker disk will be titled to various angles when in use on a side hill.

A further object of the invention is to provide a land marker for corn planters which will possess advantages in points of efficiency and durability, is inexpensive to manufacture, and at the same time is simple in construction and operation.

With the above and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts hereinafter more fully described, pointed out in the claims and shown in the accompanying drawings in which,

Figure 1 is a rear elevation showing the marker arm extended to an operative position. Fig. 2 is a similar view showing the marker arm folded into a compact form. Fig. 3 is a top plan view. Fig. 4 is a sectional view on the line 4—4, Fig. 2, Fig. 5 is a sectional view on the line 5—5, Fig. 2, and Fig. 6 is a sectional view on the line 6—6 of Fig. 2.

Referring more particularly to the drawings, 1 indicates the rear cross bar of a corn planter, having a pivotally mounted bar 2 secured thereto by means of the bolt 3. Mounted on the bolt 3 and disposed on the rear of the bar 2, is a U-shaped member 4 which is held against relative lateral movement by means of the screws 5. The inner end of the supporting arm 6 is pivotally secured between the arms 7 of the member 4, said supporting arm being adapted to swing in a substantially horizontal plane.

A semi-circular supporting member 8 is provided having its ends flattened and bent at right angles to the body portion and secured to the bar 2 by means of the small bolts 9. This member 8 is to provide a support for the arm 6 while it is being swung from one side of the planter to the other. The outer end of the arm 6 is formed hook-shape, as shown at 10, and the arms 11 and 12 are secured thereto by means of the bolt 13. The arm 12 is rigidly secured to one side of the hook 10 and disposed in a substantially inclined position, and the arm 11 is pivotally secured on the other side of the hook 10.

Pivotally secured to the outer ends of the arms 11 and 12 is the folding marker arm 14 in the form of a lazy tong. These arms 11 and 12 and the folding arm 14 are to be made of iron so they will be strong and durable. A rotatable marking disk 15 is mounted on the outer end of the arm 14 and adapted to mark off the rows when the planter is crossing the field. A pair of spaced arms 16 are secured to the disk 15 and adapted to be adjustably secured to the outer end of the arm 14 by means of the bolts 15′. The outer end of the arm 14 is provided with a plurality of spaced openings 16′ so that the disk 15 may be adjusted to different widths of rows desired. A curved rack bar 17 is provided having one end secured by means of the bolt 13 and the other end secured by means of the bolt 18. A ratchet lever 19 is pivotally mounted on the bolt 13 and disposed adjacent the rack bar, said lever carrying a spring-pressed pawl adapted to engage the rack bar to hold said lever in an adjusted position. A short bar 20 is secured to the lever and the inner end of the arm 14, whereby the arm 14 may be unfolded or folded, as desired.

Suspended from the bar 2 at each end thereof, are the hooks 21 adapted to engage with the underside of the bar 1 when the disk 15 is raised from the ground and prevent the arm from dropping down. These hooks are also convenient when planting on the side hill as they will allow the marker arm to raise or lower, as desired.

By having the bar 2 pivotally mounted, the arm 14 will raise or lower when the

disk 15 strikes a large stone or other obstruction, thus preventing the arm from being wrenched at its inner end, as is usually the case where the arms are rigidly secured.

This marker can be quickly and easily attached to any corn planter, and the marker arm can be readily and easily folded when turning around at the end of the field. While I have shown and described the preferred form of my invention, it will be obvious that various changes in the details of construction, and in the proportions may be resorted to for successfully carrying my invention into practice without sacrificing any of the novel features or departing from the scope thereof.

What is claimed is:—

1. In a corn planter, the combination of a frame, a transverse bar pivotally secured to the rear of said frame, a supporting arm pivotally secured to said bar, a hook member formed on the outer end of said arm, a collapsible arm secured to said hook member, a ratchet lever carried by said hook member and adapted to operate said collapsible arm, a marker disk carried by the outer end of said collapsible arm, and a hook suspended from each end of the transverse bar adapted to engage the frame when the marker is raised off the ground to prevent said arm from dropping down.

2. In a corn planter, the combination of a frame, a transverse bar pivotally secured to the rear of said frame, a U-shaped member secured to the rear of said bar, having its arms extending rearwardly, a supporting arm having its rear end pivotally secured between the arms of the U-shaped member and adapted to swing in a horizontal plane, a hook member formed on the outer end of said arm, a collapsible arm secured to said hook member, a ratchet lever carried by said hook member and adapted to operate said collapsible arm, a marker disk carried by the outer end of said collapsible arm, and a hook suspended from each end of the transverse bar and adapted to engage the frame when the marker is raised off the ground to prevent said arms from dropping down.

3. In a corn planter, the combination of a frame, a transverse bar pivotally secured to the rear of said frame, a supporting arm pivotally secured to said bar and adapted to swing in a horizontal plane, means for supporting said arm, a collapsible arm carried by said supporting arm, means for operating said collapsible arm, and a marker carried by said collapsible arm.

4. In a corn planter, the combination of a frame, a transverse bar pivotally secured to the rear of said frame, a supporting arm pivotally secured to said bar and adapted to swing in a horizontal plane, a semi-circular supporting member secured to said bar and adapted to support said arm, a collapsible arm carried by said supporting arm, a lever carried by said supporting arm and adapted to actuate said collapsible arm, and a marker carried by said collapsible arm.

5. In a corn planter, the combination of a frame, a transverse bar pivotally secured to the rear of said frame, a U-shaped member secured to the rear of said bar, having its arms extending rearwardly, a supporting arm having its rear end pivotally secured between the arms of the U-shaped member and adapted to swing in a horizontal plane, a collapsible arm carried by said supporting arm, and a marker carried by said collapsible arm.

6. In a corn planter, the combination of a frame, a transverse bar pivotally secured to the rear of said frame, a U-shaped member secured to the rear of said bar, having its arms extending rearwardly, a supporting arm having its rear end pivotally secured between the arms of the U-shaped member and adapted to swing in a horizontal plane, a semi-circular supporting member secured to said bar and adapted to support said supporting arm, a collapsible arm carried by said supporting arm, a lever carried by said supporting arm, and adapted to operate said collapsible arm, and a marker carried by said collapsible arm.

7. In a corn planter, the combination of a frame, a transverse bar pivotally secured to the rear of said frame, a supporting arm pivotally secured to said bar and adapted to swing in a horizontal plane, means for supporting said arm, a collapsible arm carried by said supporting arm, means for operating said collapsible arm, a marker carried by said collapsible arm, means carried by said transverse bar to prevent said arms from dropping down when the marker is raised from the ground.

8. In a corn planter, the combination of a frame, a transverse bar pivotally secured to the rear of said frame, a supporting arm pivotally secured to said bar and adapted to swing in a horizontal plane, means for supporting said arm, a collapsible arm carried by said supporting arm, means for operating said collapsible arm, a marker carried by said collapsible arm, a hook suspended from each end of said bar and adapted to engage the frame when the marker is raised off the ground to prevent said arms from dropping down.

9. In a corn planter, the combination of a frame, an additional frame pivotally secured to said first frame, a supporting arm secured to said additional frame, a hook member formed on the outer end of said arm, a collapsible arm secured to said hook member, a ratchet lever carried by said hook member and adapted to operate said col-

lapsible arm, and a marker disk carried by said collapsible arm.

10. In a corn planter, the combination of a frame, a transverse bar pivotally secured to the rear of said frame, a supporting arm pivotally secured to said bar and adapted to swing in a horizontal plane, a semi-circular supporting member secured to said bar and adapted to support said arm, a hook member formed on the outer end of said supporting arm, a collapsible arm secured to said hook member, a ratchet lever carried by said hook member and adapted to operate said collapsible arm, and a marker disk carried by said collapsible arm.

11. In a corn planter, the combination of a frame, a transverse bar pivotally secured to the rear of said frame, a U-shaped member secured to the rear of said bar, having its arms extending rearwardly, a supporting arm having its rear end pivotally secured between the arms of the U-shaped member and adapted to swing in a horizontal plane, a semi-circular supporting member secured to said bar and adapted to support said supporting arm, a hook member formed on the outer end of said supporting arm, a collapsible arm secured to said hook member, a ratchet lever carried by said hook member and adapted to operate said collapsible arm, and a marker disk carried by said arm.

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

WILLIAM R. COOK.

Witnesses:
LEON B. CREABIL,
KUL T. SEAMAN.