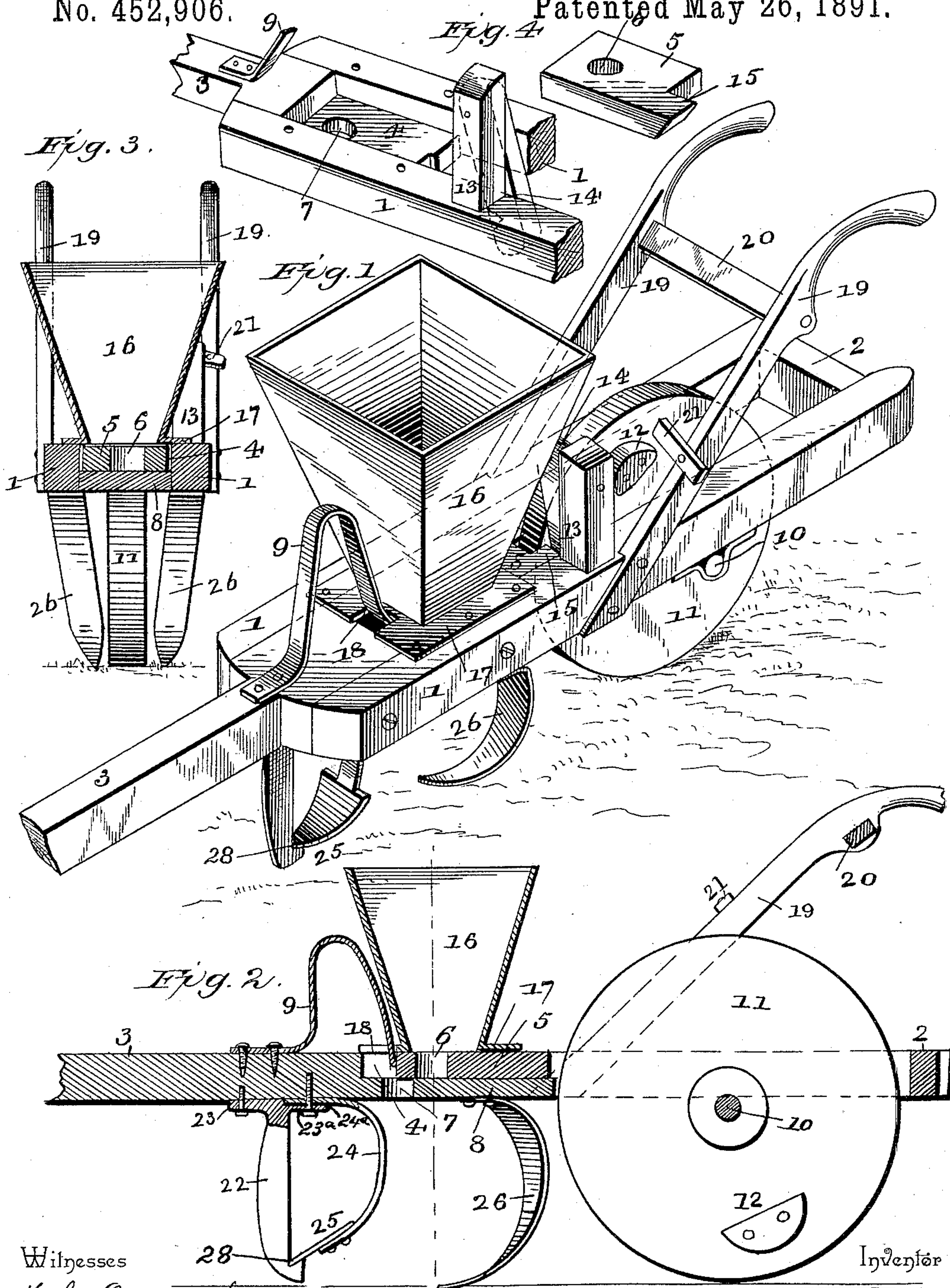


(No Model.)

W. T. LOCKE.  
CORN PLANTER.

No. 452,906.

Patented May 26, 1891.



Witnesses

J. L. Ouraud

Wm. Bagges

William T. Locke.

By his Attorneys,

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# UNITED STATES PATENT OFFICE.

WILLIAM THOMAS LOCKE, OF SPRINGDALE, ARKANSAS.

## CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 452,906, dated May 26, 1891.

Application filed July 8, 1890. Serial No. 358,092. (No model.)

### *To all whom it may concern:*

Be it known that I, WILLIAM THOMAS LOCKE, a citizen of the United States, residing at Springdale, in the county of Washington and State of Arkansas, have invented a new and useful Corn-Planter, of which the following is a specification.

This invention relates to corn-planters; and it has for its object to construct a machine of this class which shall be simple, durable, and efficient, and it may be manufactured at a moderate expense.

With these ends in view the invention consists in the improved construction, arrangement, and combination of parts which will be hereinafter fully described, and pointed out in the claim.

In the drawings, Figure 1 is a perspective view of a corn-planter embodying my improvements. Fig. 2 is a longitudinal vertical sectional view of the same. Fig. 3 is a vertical transverse sectional view. Fig. 4 is a perspective detail view of the beam and seed-slide detached.

Like numerals of reference indicate like parts in all the figures.

The frame of my improved corn-planter is composed of side pieces 1 1, spaced at their rear ends by a cross-piece 2.

3 designates the tongue, the rear end of which is made of a width equal to the length of the cross-piece 2. The wide rear end of the tongue is fitted between the front ends of the side beams 1 1, where it is held securely by means of screws or bolts. The rear end of the widened end of the tongue is provided with a notch or recess 4, in which is mounted the seed-slide 5, which has a longitudinally-reciprocating movement in said notch or recess. The seed-slide is provided with a perforation or seed-cup 6, which, when the said slide is at the forward limit of its movement, is in alignment with an opening 7 in the widened portion of plate 8 at the rear end of the tongue. A flat spring 9, secured to the upper side of the tongue and bent into an inverted-U shape, bears against the front edge of the seed-slide and serves to force the latter normally in a rearward direction.

The under sides of the side beams 1 1 are provided with bearings for the axle 10, carrying the drive and bearing wheel 11, which is

provided in one side with a cam-shaped projection 12.

13 designates an upright mounted upon one of the side beams 1, and to the upper end of said upright is pivoted a lever 14, which extends downwardly in rear of an arm or lug 15, that extends rearwardly from the seed-slide. The lower end of the lever 14 hangs in the path of the cam-shaped projection 12 of the driving-wheel. When the latter revolves, the said projection will engage the lever 14, which in turn bears against the projection 15 at the rear end of the seed-slide, forcing the latter in a forward direction against the tension of the spring 9. The latter, as soon as the projection 12 passes the lever 14, serves to restore the seed-slide to its normal position.

16 designates the hopper, which is provided at its lower edge with a flange 17 to receive screws or bolts, by means of which it is secured to the upper sides of the side beams 1, thus retaining in position the seed-slide 5. The front portion of the flange 17 has a notch 18 for the passage of the spring 9.

19 designates the handles, which are secured to the side beams 1, and which are connected in the usual manner by a cross-piece or round 20. To one of said handles is pivoted a catch or turn-button 21, which, when desired, may be used to support the lever 14 in a raised position out of the path of the projection 12 of the drive-wheel.

22 designates the furrow-opener, which is composed, mainly, of a narrow sharp-edged shank provided at its upper edge with flanges 23 and 23<sup>a</sup>, by which it is secured to the under side of the tongue. The rear flange 23<sup>a</sup> is provided with a recess 24<sup>a</sup> in its upper side to receive the upper end of a curved standard 24, which is secured in position by the same bolt which passes through the flange 23<sup>a</sup>. The lower end of the standard carries a plow 25, the point of which rests in a notch 28 in the rear edge of the furrow-opener to prevent said plow-point from catching in weeds or trash.

By the construction above described the curved standard carrying the plow serves to brace and strengthen the furrow-opener, and the latter, which serves to cut a furrow in front of the plow, serves to guard the point of the latter.



Covering-plows 26 are secured to the under sides of the side beams at a suitable distance in rear of the furrow-opener.

From the foregoing description, taken in  
5 connection with the drawings hereto annexed, the operation and advantages of my invention will be readily understood by those skilled in the art to which it appertains.

When the machine progresses over the field,  
10 the projection 12 of the drive-wheel every time it comes in contact with the lever 14 will serve to force the seed-slide in a forward direction against the tension of the spring, thus causing a portion of the contents of the  
15 hopper to be dropped through the opening 7 and into the furrow prepared for its reception. The spring 9 serves to restore the seed-slide automatically to its normal position. The covering-plows 26 serve to cover the seed  
20 in the usual manner, and the drive-wheel, which will have a tread of any desired width, serves to compact the soil over the seed. It is obvious that the distance between the hills may be varied by using more than one pro-

jection 12 upon the side of the drive-wheel 25 and properly regulating the distance between such projections.

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

The combination of the frame, the furrow-opener having flanges 23 and 23<sup>a</sup>, the latter provided with a recess 24<sup>a</sup> in its upper side, the curved standard 24, carrying the plow 25, and a recess 28 to accommodate the point of  
30 the latter in the rear side, near the lower end of the furrow-opener, the upper end of said standard being seated in the recess 24<sup>a</sup> and secured by the bolt which secures the flange 23<sup>a</sup> to the under side of the tongue, as set  
40 forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM THOMAS LOCKE.

Witnesses:

W. M. GICHLYTE,  
C. W. WRIGHT, Jr.