

(No Model.)

J. J. DEWBERRY.
PLANTER.

No. 556,405.

Patented Mar. 17, 1896.

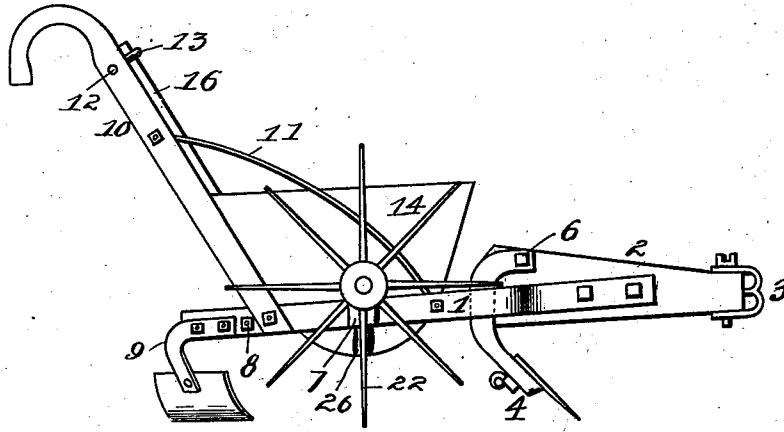


Fig. 1.

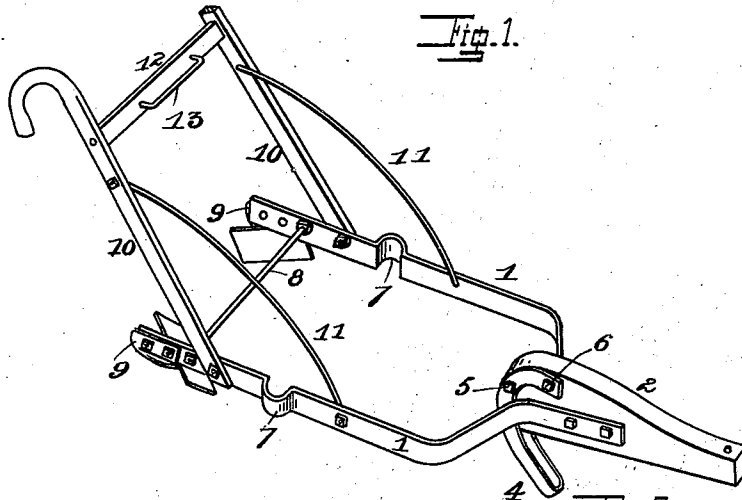


Fig. 2.

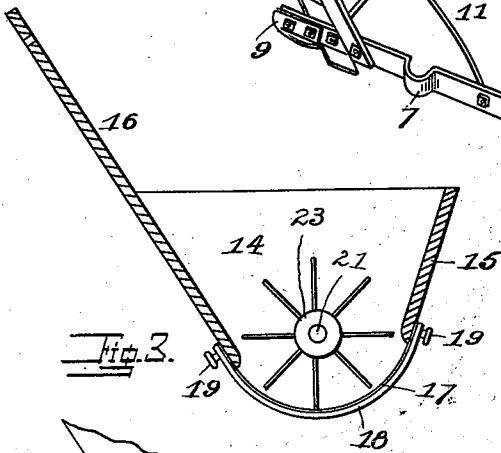


Fig. 3.

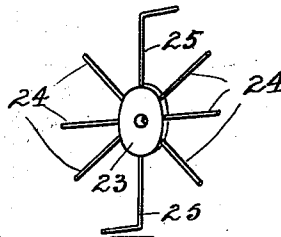


Fig. 5.

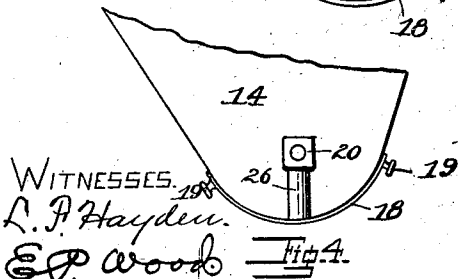


Fig. 4.

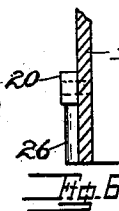


Fig. 6.

WITNESSES.
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UNITED STATES PATENT OFFICE.

JOEL J. DEWBERRY, OF HICKORY FLAT, ALABAMA.

PLANTER.

SPECIFICATION forming part of Letters Patent No. 556,405, dated March 17, 1896.

Application filed May 19, 1894. Serial No. 511,840. (No model.)

To all whom it may concern:

Be it known that I, JOEL J. DEWBERRY, a citizen of the United States, and a resident of Hickory Flat, county of Chambers, and State of Alabama, have invented certain new and useful Improvements in Planters; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

This invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the device, showing all the parts assembled. Fig. 2 is a perspective view of the frame thereof; and Fig. 3 is a vertical section of the hopper, showing the improved feed-wheel. Fig. 4 is a detail of the hopper, showing a portion thereof in side elevation. Fig. 5 is a perspective detail of the feed-wheel, and Fig. 6 is a detail section of Fig. 4.

In the figures like reference-marks are uniformly employed in the designation of corresponding elements of construction.

The frame of the device is composed of two metallic side pieces, 1, bent convergently at their front ends and then extended parallel, having bolted between their forward ends the beam 2, which is comparatively narrow vertically at its front end where it receives the clevis 3, being wider at its back end and being so situated between the bars 1 that a considerable portion of its width projects above same. The foot 4, adapted to receive the opener, is pivoted upon a bolt 5 to the back end of a beam as near as possible to the point of joinder therewith of the side bars 2, its upper end being also secured to the said beam by a bolt 6. The hole in the beam through which the bolt 6 passes may be slotted vertically, if desired, whereby the foot 4 may be adjusted in its angularity to the beam.

In the side pieces 1 of the frame are outward bends 7 forming vertical guides for a purpose to be hereinafter described, and a brace-bar 8 is secured between the back ends of said side pieces to keep the same relatively parallel. Projecting downwardly from the back end of the side bars and secured thereto in any desired manner, either adjustably or not, are feet 9, which may be so shaped on

their lower ends as to form covers, or blades may be secured thereto, the object being to provide at this place suitable means for closing in the dirt upon the seed.

Handles 10 are secured to the side pieces near their back ends, and braces 11 extend from said handles near their top to a point on the side pieces, 1, ahead of the guides 7, whereby said handles are retained rigidly in place. A cross-bar 12 is as usual placed between the handles 10, holding them relatively stationary, and a guide 13 consisting of a metallic rod having its ends turned backwardly is inserted in said cross-bar.

The hopper 14 is constructed of two vertical sides having curved lower edges and a front board, 15, inserted therebetween, extending downwardly to the springing-point of the curve, and a back piece, 16, extending downwardly between said side pieces about the same distance and upwardly above the hopper a sufficient distance to enter the guide 13 when the hopper is in place.

A bottom 17 consisting of a curved sheet of metal is secured to the open bottom of the casing thus formed, and a slot is cut in the middle thereof over which slide shutters 18, formed of a strip of metal curved lengthwise to conform to the shape of the bottom and being slotted at its ends to receive the thumb-screws 19, which enter the sides of the hopper and which when tightened will hold the said shutter in any set position. Journaled in bearing-boxes 20 on each side of the hopper is a shaft 21, which carries on one end, and preferably the right-hand end, a wheel 22, which consists of a hub and radial arms thereon of a sufficient length to contact with the ground when the hopper is in position and the device in use. Mounted upon the said shaft 21 directly over the slot in the bottom of the hopper is a wheel 23, which is provided with straight radial spikes 24 and other spikes 25 which have their ends oppositely bent sidewise at a right angle. The spikes 24 are of sufficient length to enter the slot in the bottom of the hopper, and the spikes 25 are of such length as to allow them to contact with the upper side of the curved bottom of the hopper and in this manner remove all foreign substances therefrom without forcing them out of the slot. The portion of said

spikes 25 over the slot being bent at a right angle affords sufficient bearing upon or engagement with any foreign substance as to move it forward until the eccentricity of the bottom of the hopper shall afford room for it to escape from engagement with the spikes 25, at which point it will be kept by the revolution of the wheel 23. It is obvious that with this feed-wheel the slot can never become choked or the adjustment of the slide 18 changed by foreign substances being forced through said slot.

On the sides of the hopper below the bearing-boxes 20 are slides 26 formed by projections, which slides are made to fit the guides 7 loosely, so that as the wheel 22 follows undulating ground or passes over projections the hopper will be raised in its place and all jar and strain be taken from the parts, and also on working around the brow of a hill the proper relative position of the parts may be had.

It is obvious that one or more hoppers may be added, if desired, and that other equivalent devices may be employed without a departure from the spirit of this invention.

It will be observed that this device is extremely short between the clevis and the coverers, which is of incalculable advantage in devices of this class.

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

In a planter, a frame consisting of metallic side bars set parallel at the sides and converged and extended forwardly at their front ends, a semicircular outward bend in each bar near its longitudinal center, a rod secured to and between said bars at their back ends, a beam bolted between the forward extensions of said side bars and projecting upwardly above, and backwardly beyond, said extensions, a plow-standard secured to said backwardly and upwardly extended portions by bolts passing through same and said standard, a hopper having seed-discharging mechanism and a wheel operatively connected thereto, vertical ribs on the side of said hopper correlative to the outward bends in the side pieces, coverers secured to the back ends of said side pieces, and handles, all combined, arranged and operating substantially as, and for the purpose specified.

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

JOEL J. DEWBERRY.

Witnesses:

T. C. HENY,
HENRY PATTERSON.