(No Model.)

J. H. BRANAN.

COTTON PLANTER.

No. 453,610. Patented June 9, 1891.

FIG. 1.

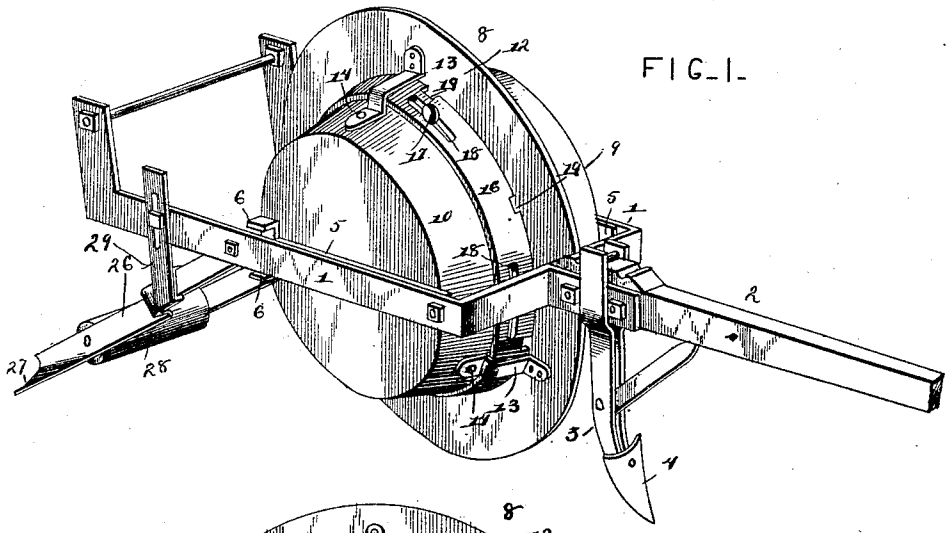


FIG. 2.

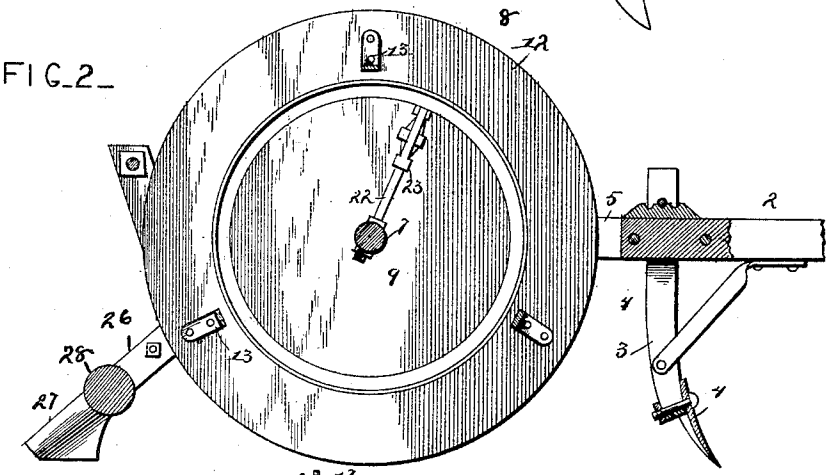


FIG. 3.

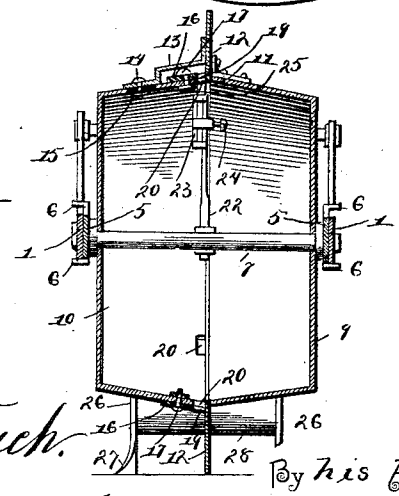
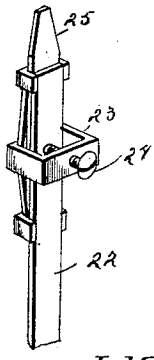


FIG. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

JOEL H. BRANAN, OF ASYLUM, GEORGIA.

COTTON-PLANTER.

SPECIFICATION forming part of Letters Patent No. 453,610, dated June 9, 1891.

Application filed October 1, 1890. Serial No. 366,713. (No model.)

To all whom it may concern:

Be it known that I, JOEL H. BRANAN, a citizen of the United States, residing at Asylum, in the county of Baldwin and State of Georgia, have invented a new and useful Cotton-Planter, of which the following is a specification.

This invention relates to cotton-planters of that class which are provided with a revolving seed-carrying drum having a circumferential series of slots or openings for the escape of the seed; and it has for its object to construct a device of this class which shall possess superior advantages in point of simplicity, durability, and general efficiency.

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

In the drawings hereto annexed, Figure 1 is a perspective view of a cotton-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 adjustable agitating-finger.

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

The frame of my improved cotton-planter is composed of the side pieces 1 1, the front ends of which are connected with the beam 2, to which is attached the standard 3, to the lower end of which is secured a furrow-opener 4 of ordinary construction. To the inner sides of the side pieces 1, near the front ends of the same, are pivoted the side pieces 5 5, which are provided at their rear ends with the laterally-extending flanges 6, adapted to bear against the upper and lower edges of the side pieces 1, thereby limiting the vertically-swinging movement of the pivoted frame-pieces 5. The latter are provided near their rear ends with bearings for a transverse shaft or axle 7, upon which the revolving drum 8 is journaled.

The drum 8 is composed of two parts or sections 9 and 10, each of which may be described as being composed of a frustum of a cone constructed of sheet metal or other suitable material. Permanently attached to the edge of the pan 9 by means of angular or L-shaped brackets 11 is an annular flange 12, to the opposite side of which are secured the brackets 13, by means of which the pan or section 10 is secured adjustably to the pan 9. The brackets 13 are provided with set-screws 14, extending through slots 15 in the pan 10, which latter may thus be adjusted at any desired distance from the central flange 12.

16 designates a ring or band, which is secured adjustably to the pan 10 by means of set-screws 17, extending through slots 18 in the said ring. The latter is provided at its inner edge with slots or recesses 19, adapted to be placed in alignment with corresponding slots 20 in the inner edge of the pan, thus forming openings of suitable size to permit the contents of the drum to escape in regulated quantities.

The shaft or axle 7, upon which the drum or cylinder revolves, is fixed and is provided with a radial arm 22, to the outer end of which a clamp 23 is secured adjustably by means of a set-screw 24. The said clamp carries a flexible finger 25, which extends through the slot or opening between the meeting edges of the pan 10 and ring 16 and is so placed that it remains in a vertical position with the flexible finger projecting through the upper part of the above-mentioned slot. Its function is to clear the slot of any obstruction at each revolution of the drum, and so leave the opening free that the contents of the drum or hopper may drop through in regulated quantities.

Suitably attached to the side pieces of the frame near the rear ends of the latter are the brackets 26, carrying the coverers 27 and the weighted roller 28. Braces 29 are provided for the adjustment of the brackets 26.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of my invention will be readily understood. When the machine is drawn over the field, the drum or cylinder will revolve and the seed will escape through the slots or openings at the periphery of the drum, which have been adjusted as herein described.

The construction of the machine is simple and inexpensive, and it will deposit the seed in a rapid and efficient manner, either in drills

or spaces. The intervals or spaces may be regulated at will by the operator by simply adjusting the ring or band 16.

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

1. In a cotton-planter of the type herein described, the combination of the frustum-shaped pans, the L-shaped brackets secured to one of said pans and carrying an annular flange, the angular arms secured to said flange and connected adjustably with the opposite frustum-shaped pan, and the ring or band encircling and connected adjustably with the latter and having notches at its inner edge, substantially as and for the purpose set forth.

2. The combination of the revoluble drum or cylinder composed of pans or sections, an intermediate flange secured to one of said pans and provided with arms or brackets to which the other pan is adjustably connected, the notched or slotted ring or band mounted adjustably upon said drum, and the arm extending radially from the shaft or axle of the drum or cylinder and having an adjustable clamp carrying a flexible finger extending upwardly into the slot or opening between the adjustably-connected pans or sections, substantially as and for the purpose set forth.

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

JOEL H. BRANAN.

Witnesses:
L. J. LAMAR,
FLEMING G. GRIEVE.