(No Model.) 2 Sheets—Sheet 1.

J. W. THOMPSON.

SEED PLANTER.

No. 458,346. Patented Aug. 25, 1891.

FIG_1.

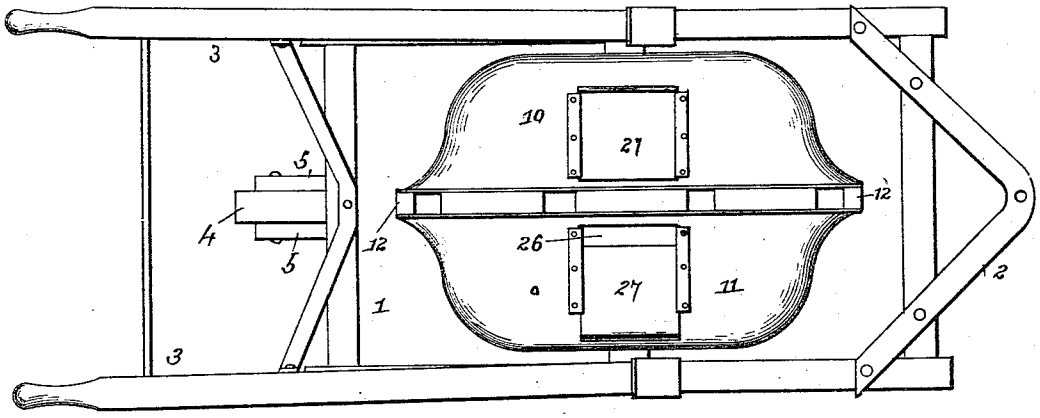


FIG_4.

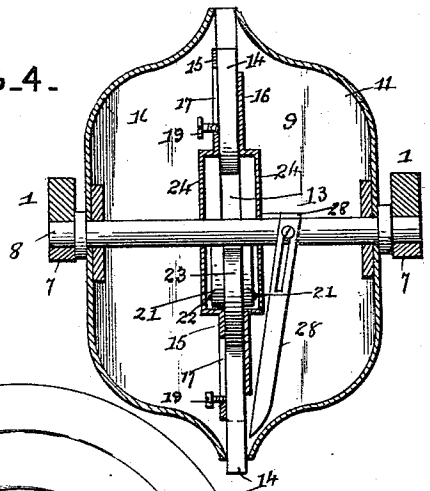


FIG_2.

Witnesses

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Wm. Bagger

Inventor

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By his Attorneys,

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(No Model.) 2 Sheets—Sheet 2.

J. W. THOMPSON.

SEED PLANTER.

No. 458,346. Patented Aug. 25, 1891.

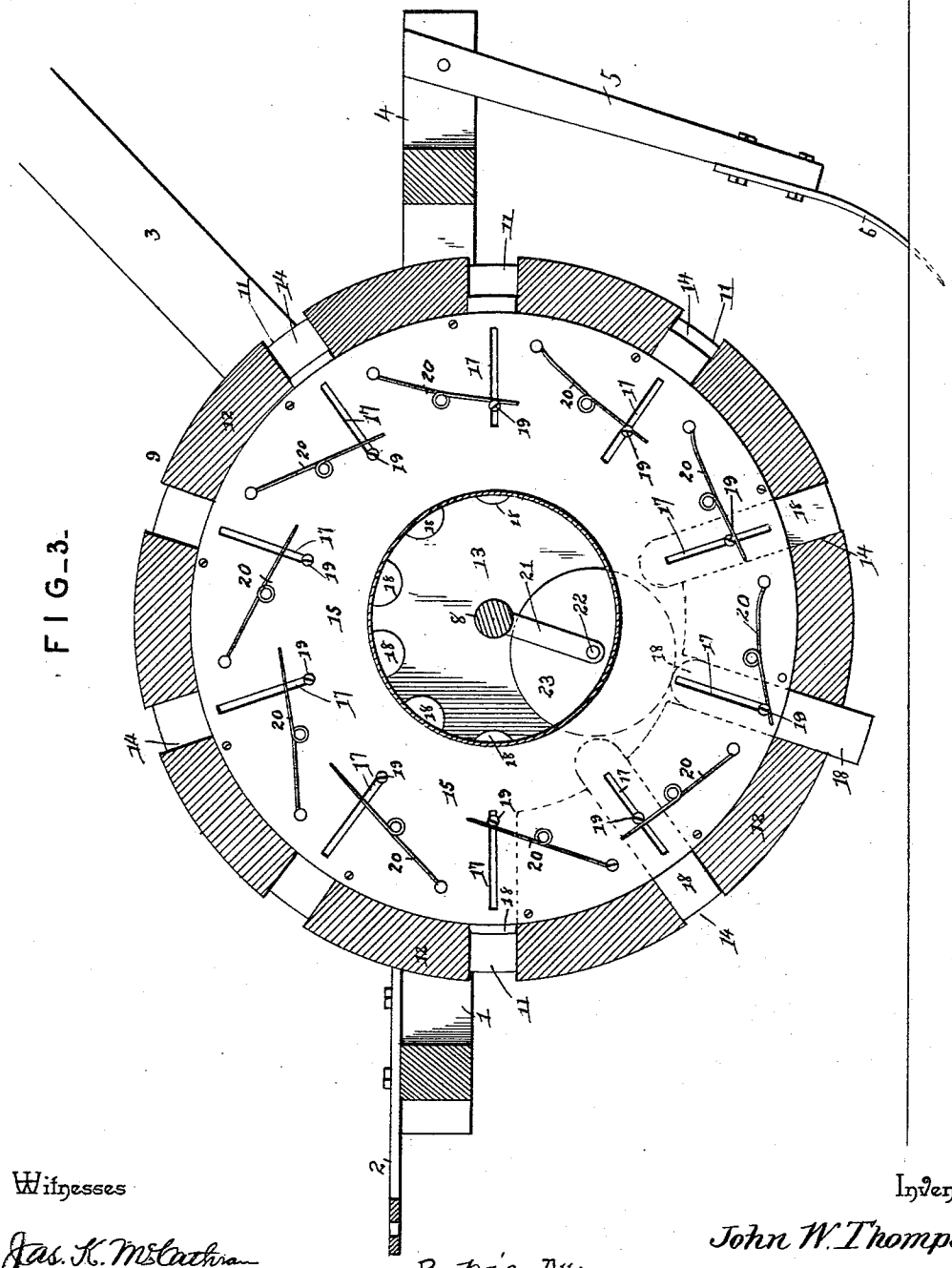


FIG. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

JOHN W. THOMPSON, OF ALVORD, TEXAS.

SEED-PLANTER.

SPECIFICATION forming part of Letters Patent No. 458,346, dated August 25, 1891.

Application filed May 25, 1891. Serial No. 394,014. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. THOMPSON, a citizen of the United States, residing at Alvord, in the county of Wise and State of Texas, have invented a new and useful Seed-Planter, of which the following is a specification.

This invention relates to seed-planters of that class which are provided with revolving hoppers; and it has for its object to provide a machine of this class which shall be adapted for planting, cotton, corn, or other seed, and which shall be simple in construction and efficient in operation.

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 plan view of a seed-planter constructed in accordance with my invention. Fig. 2 is a side elevation of the same with parts broken away to show the construction. Fig. 3 is a longitudinal vertical sectional view. Fig. 4 is a vertical transverse section taken on the line 4 4 in Fig. 2.

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

The frame of my improved seed-planter, which is designated by 1, is rectangular in shape and is provided with the draft-bar 2, the handles 3 3, and the rearwardly-extending bracket 4, to the sides of which are connected the standards 5, the lower ends of which carry the covering-shovels 6. The sides of the frame are provided with boxes 7, supporting the transverse shaft 8, which is secured non-revolubly in said boxes.

9 designates the hopper, which is composed of pans or receptacles 10 and 11, secured to opposite sides of a central disk 12. The latter is provided with a central opening 13, and with radial grooves or slots 14, which latter are located at equal intervals, say three inches apart.

To the opposite sides of the central disk 12 are secured the sheet-metal disks 15 and 16, which are of slightly-different diameters, the disk 15, secured to the side of the center disk 12, having the pan or receptacle 10, being somewhat larger than the disk 16, which is secured on the opposite side of the center disk. One of the sheet-metal disks, in this instance the disk 15, is provided with slots 17, registering with the radial slots 14 in the central disk 12. Slides 18, which are mounted in the slots 14 of the center disk, are provided with guide-screws 19, extending outwardly through the slots 17 and engaging the springs 20, which are arranged to force the slides 18 in an inward direction in their respective slots.

The shaft or axle 8 is provided with centrally-located downwardly-extending arms 21, having bearings for a spindle 22, carrying a wheel 23, adapted to engage the inner ends of the slides 18 for the purpose of forcing the said slides outward against the tension of the springs. The inner ends of the slides 18 are rounded, so as to be readily engaged and actuated by the wheel or roller 23.

The disks 15 and 16 are provided with outwardly-extending bosses 24 to accommodate the arms 21, carrying the wheel 23, and the said bosses, as well as the pans 10 and 11, forming the sides of the hopper, are provided with perforations forming bearings, whereby the hopper is mounted revolubly upon the shaft 8.

The pans or receptacles 10 and 11 are provided with suitable openings 26, having sliding covers 27, through which seed may be introduced into the compartments of the hopper. Arms or stirrups, as 28, may also be secured adjustably to the center shaft 8 within one or both compartments of the hopper.

In operation the seed is placed in the hopper-compartments of the hopper. The compartment formed by the pan 10, which is adjacent to the larger disk 15, is intended for corn, peas, and the like, while the opposite compartment 11, adjacent to the smaller disk 16, is intended for cotton-seed. This is for the reason that owing to the smaller size of the disk 16 a greater quantity of seed will be admitted to the seed-cups, which are formed by the outer ends of the slots 14, or rather the openings for the passage of the seed, owing to the smaller size of the disk 16, are larger than the openings upon the opposite side, which is obviously necessary, owing to the peculiar nature of the cotton-seed, as is well understood. When in its passage over the ground the hopper revolves, the seed

passes into the seed slots or openings and is pushed out and forced into the ground by the action of the slides 18, which are forced outwardly by the action of the wheel 23 against their inner ends. As the slides 18 pass out of engagement with the wheel 23, they are restored to their normal position by the action of the springs 20.

When it is desired to plant the seed at greater distances apart, any desired number of the slides, when forced in an outward direction, may be secured and held in an inoperative position by simply tightening the screws 19, thus closing the outer ends of the slots and obstructing the passage of seed.

Having thus described my invention, what I claim is—

1. In a seed-planter, the combination of a revolving hopper having the side compartments and the radially-slotted center disk, the slides mounted in the slots of said disks, springs arranged to force the said slides in an inward direction, and arms extending downwardly from the center shaft or axle and carrying the wheel or roller arranged to bear against the inner ends of said slides, substantially as set forth.

2. In a seed-planter, the combination of the hopper having the side compartments and the radially-slotted center disk, side disks of different diameters secured to opposite sides of said center disk, the slides mounted in the radial slots of the latter and having screws extending through radial slots in one of the side disks, springs arranged to bear against said screws to force the slides in an inward direction, and a wheel mounted in brackets extending downwardly from the center shaft or axle and adapted to bear against the inner ends of the spring-actuated slides, substantially as set forth.

3. In a seed-planter, the combination of the frame having the non-revoluble shaft, the revolving hopper mounted upon said shaft and comprising the side compartments, radially-slotted center disk, the side disks of different diameters secured to opposite sides of said center disk, the slides mounted in radial slots of the latter and having screws extending through radial slots in one of the side disks, the springs bearing against said screws to force the slides in an inward direction, the operating-wheel mounted in brackets extending downwardly from the stationary axle, and the stirrup or agitator secured adjustably to the latter, 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.

JOHN W. THOMPSON.

Witnesses:
W. T. ROGERS,
J. L. SINS.