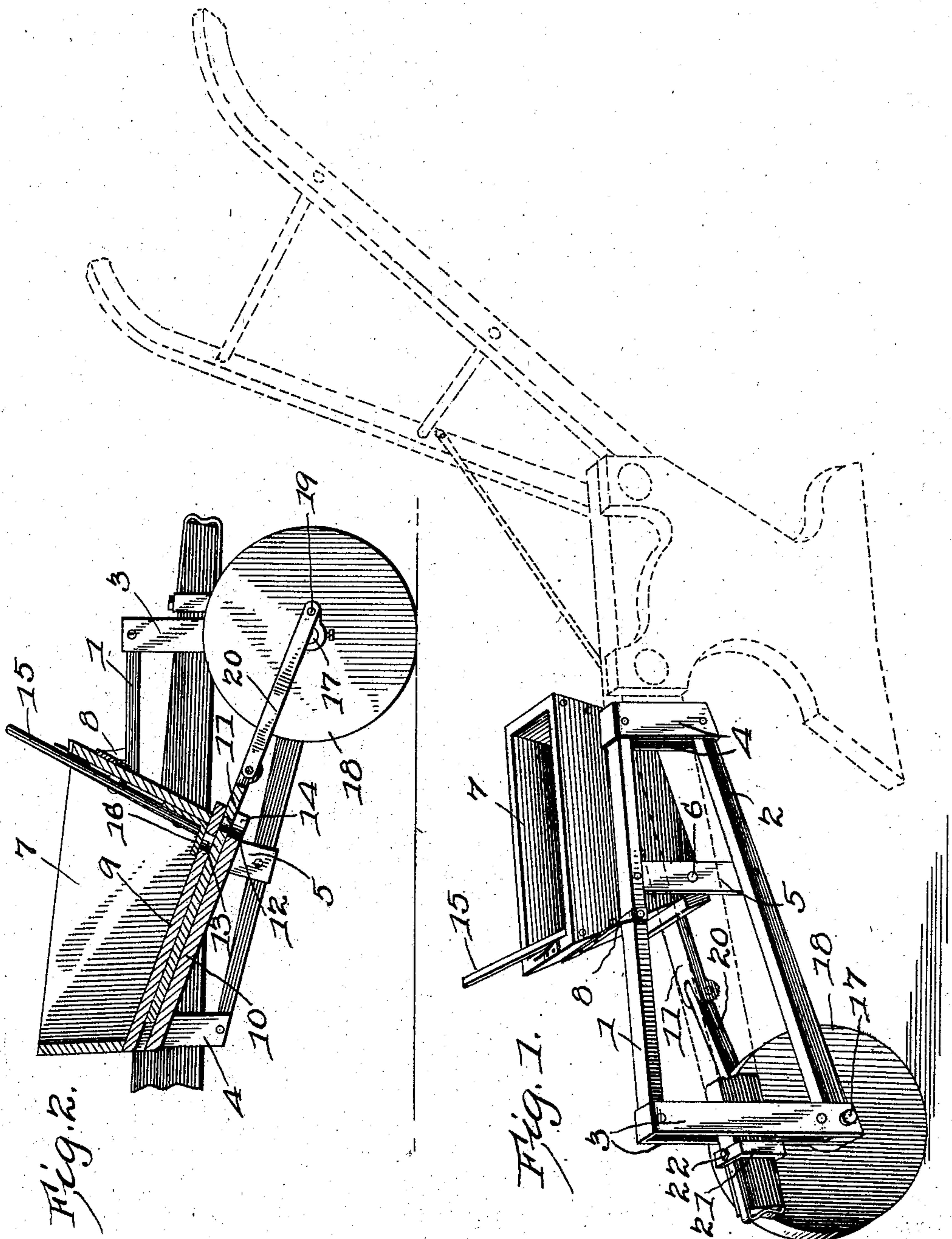


No. 815,413.

PATENTED MAR. 20, 1906.

J. L. FLOYD.
SEED PLANTER.

APPLICATION FILED JAN. 17, 1906.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN LATTIE FLOYD, OF ASHPOLE, NORTH CAROLINA.

SEED-PLANTER.

No. 815,413.

Specification of Letters Patent.

Patented March 20, 1906.

Application filed January 17, 1906. Serial No. 296,515.

To all whom it may concern:

Be it known that I, JOHN LATTIE FLOYD, a citizen of the United States, residing at Ashpole, in the county of Robeson and State of North Carolina, have invented a new and useful Seed-Planter, of which the following is a specification.

This invention relates to seed-planters; and it has for its object to provide a seed-planting attachment which may be readily mounted for operation upon the beam of an ordinary plow and which shall be capable of being readily transferred from one plow to another.

Another object of the invention is to present a seed-planting attachment of the character described which shall be capable of automatically adjusting itself to obstructions and undulations of the ground without interrupting the operation thereof.

Still other objects are to simplify and improve the general construction and operation of this class of devices.

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

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations, and modifications within the scope of the invention may be resorted to when desired.

In the drawings, Figure 1 is a perspective view of the improved seed-planting attachment, showing the same applied in operative position upon the beam of a plow, which latter is shown in dotted lines. Fig. 2 is a longitudinal sectional view of the seed-planting device.

Corresponding parts are in the several figures designated by similar characters of reference.

The carrying-frame of the improved seed-planting attachment comprises a top beam 1 and a bottom beam 2, which are connected near their front ends by side straps 3 3 and near their rear ends by side straps 4 4. The said top and bottom beams are preferably made as wide as the widest plow-beam in connection with which the device is to be used, and said beams 1 and 2 are spaced apart at their rear ends sufficiently to admit a large

plow-beam. The beams 1 and 2 are made to diverge in a forward direction, thus making a frame of trapezoidal shape.

The frame-beams 1 and 2 are connected at one side by an intermediate brace or connecting strap 5, which serves for the reception of fastening means, such as a bolt 6, whereby a seedbox or hopper 7 is mounted upon the side of the carrying-frame, said seedbox or hopper being secured by means of additional straps or bracket members, as 8. The seedbox is provided with upper and lower bottom members 9 and 10, between which there is fitted a reciprocatory slide 11, having a cup or opening 12, which when the slide reciprocates passes alternately into alignment with openings 13 and 14 in the bottom members 9 and 10. Within the hopper upon the front wall of the latter there is pivoted a lever 15, carrying a slide or closure 16, whereby the opening 13 in the bottom member 9 may be obstructed when desired. The bottom member 9 occupies an inclined position, and the opening 13 is located at its lower end, so that the contents of the hopper will readily pass into and through said opening.

The bottom beam 2 of the carrying-frame is provided at its forward end with a bearing for a shaft 17, carrying a ground-engaging wheel 18, having a wrist-pin 19, which is connected by a pitman 20 with the seed-slide 11, which latter is thereby operated.

In operation the carrying-frame is mounted loosely upon the beam of an ordinary plow, as clearly indicated in Fig. 1 of the drawings, and is there secured, as by means of a cuff 21, which may be connected with the plow-beam by means of the clevis-pin 22. The front end of the carrying-frame is capable of vibrating freely upon the plow-beam in a vertical plane and the ground-engaging wheel is kept by gravity in a ground-engaging position. As the plow is drawn over the field seed of any kind—such as peas, corn, or the like, or fertilizing material—may be dropped or distributed, as will be readily understood, thus enabling the plowing and planting to be performed at a single operation.

The improved planting attachment is simple in construction, efficient in operation, and may be readily applied to and used in connection with any ordinary make or pattern of plow.

Having thus described the invention, what is claimed is—

1. A planting attachment for plows includ-

ing a trapezoidal carrying-frame adapted to receive the plow-beam between its forwardly-divergent top and bottom members.

2. A planting attachment for plows including a carrying-frame having forwardly-divergent top and bottom members spaced and connected by side straps near their front and rear ends.

3. A planting attachment for plows including a carrying-frame having divergent top and bottom members connected and spaced apart by side straps and adapted to receive a plow-beam between them, a seedbox or hopper secured upon the frame and having a reciprocatory seed-slide, a ground-engaging wheel journaled upon the frame and having a wrist-pin, and a pitman connecting the wrist-pin with the seed-slide.

4. The combination with a plow, of a carrying-frame loosely supported upon the plow-beam and having one end free for vibration in a vertical plane, a ground-engaging wheel journaled upon the vibratory end of the frame, a hopper secured upon the opposite

end of the frame and having a seed-slide, and means for transmitting motion from the ground-wheel to the seed-slide.

5. In a seed-planting attachment for plows, a carrying-frame comprising divergent top and bottom beams and side straps spacing and connecting said beams, an intermediate connecting-strap, a seedbox or hopper connected with said strap, auxiliary braces connecting the seedbox with the frame, a reciprocatory slide in the seedbox, a shaft journaled in the forward end of the bottom beam of the frame, a ground-engaging wheel upon said shaft, a wrist-pin upon said wheel, and a pitman connecting the wrist-pin with the seed-slide.

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

JOHN LATTIE FLOYD.

Witnesses:

EDGAR W. FLOYD,
FRANCIS SMITH FLOYD.