

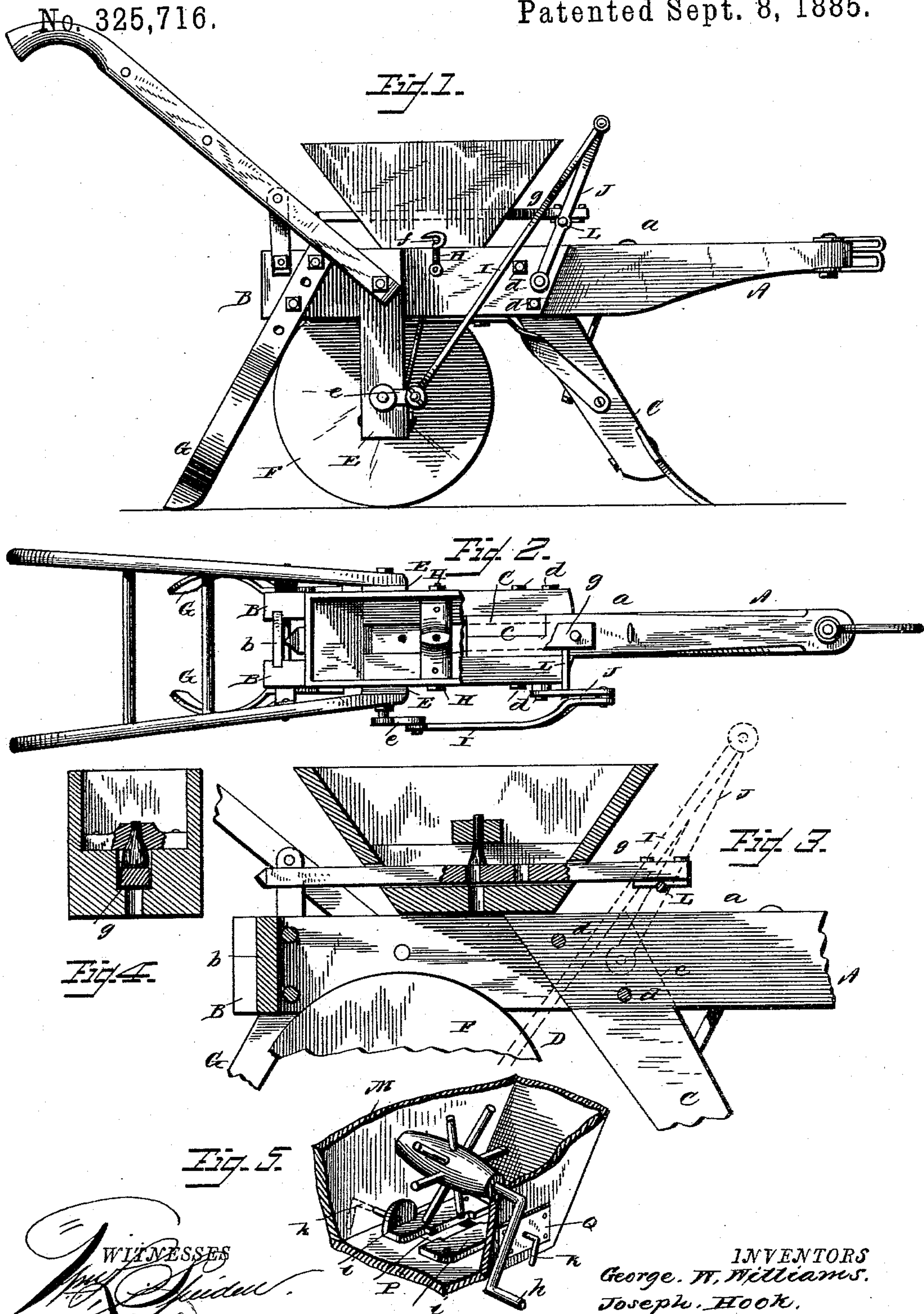
(No Model.)

G. W. WILLIAMS & J. HOOK.

CORN AND COTTON PLANTER.

Patented Sept. 8, 1885.

No. 325,716.



WITNESSES
Wm. H. Bates
J. C. Cross

INVENTORS
George W. Williams.
Joseph Hook.

By *Wm. H. Bates & Co*
their Attorneys

UNITED STATES PATENT OFFICE.

GEORGE W. WILLIAMS AND JOSEPH HOOK, OF ROCKDALE, TEXAS.

CORN AND COTTON PLANTER.

SPECIFICATION forming part of Letters Patent No. 325,716, dated September 8, 1885.

Application filed December 16, 1884. (No model.)

To all whom it may concern:

Be it known that we, GEORGE W. WILLIAMS and JOSEPH HOOK, citizens of the United States, residing at Rockdale, in the county of Milam and State of Texas, have invented certain new and useful Improvements in Corn and Cotton Planters, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention has relation to improvements in seed and cotton planters; and it consists in the construction and novel arrangement of devices, as will be hereinafter more fully set forth and particularly pointed out in the claim appended.

15 Figure 1 represents a side view of our device. Fig. 2 is a plan view of the same. Fig. 3 is a detail vertical sectional view. Fig. 4 is a detail view, and Fig. 5 is a perspective detail view, showing the feeding device in modified form.

Referring by letter to the accompanying drawings, *a* indicates the main frame of the planter, which consists, essentially, of the draft-beam *A*, the lateral longitudinal beams *B*, and the rear cross-board, *b*. The draft-beam may be of any ordinary or approved construction, having its rear end secured between the forward ends of the lateral beams *B*, and is cut obliquely or on an inclination similar to that of the standard *C*, and together with the said standard forms the forward transverse wall of the chute *D*. The standard *C* may be secured to the beam by recessing the meeting sides of both the standard and beam to form a mortise-joint, as shown at *c*, and connected to the lateral beams *B* by means of the transverse bolts *d*. To the outer sides of the lateral beams *B* are secured lateral arms *E*, which extend beneath the said beams and form bearings for the axle of the drive-wheel *F*. One end of this axle is formed with a crank, *e*, which is made fast thereto and drives a pitman, which operates the seed-dropping devices, as will be presently explained.

45 *G* indicates the covering-arms, which may be of the ordinary construction, and secured to the rear ends of side beams of the main frame by means of bolts or other suitable fastening devices. These coverers may be provided with a plurality of perforations at their

upper ends, whereby the same may be vertically adjusted.

The drive-wheel is designed to enter the chute *D* of the frame *a*, so as to engage the grain as it leaves the throat of the hopper and carry the same to the ground in advance of the coverers and in rear of the plow-blade. The side beams, *B*, are also provided with pivoted hooks *H H*, which are designed to latch over or engage the studs *f*, extending laterally from the hoppers.

I indicates the pitman, which is loosely connected at its lower or rear end to the crank-axle and pivoted at its upper or forward end to the upper end of a lever, *J*, the opposite end of which is pivotally connected to the forward portion of the main frame. To this pivoted vibrating lever *J* is secured by means of a split key or other suitable device a transverse arm, *L*, the opposite end of which is made fast to a longitudinal seed-slide, *g*. This seed-slide *g* is designed to enter longitudinally through opposite apertures in the front and rear walls of the hopper, and is provided with a suitable number of vertical perforations to register with those in the base of the hopper.

Fig. 5 shows a modification of our device, in which *M* indicates a hopper, which is peculiar in construction, and is more particularly adapted for planting cotton-seed. In using this hopper we dispense with the use of the pivoted vibrating lever and the usual seed-slide within the hopper, connecting the pitman at one end to the crank of the drive-wheel and at its upper or opposite end to the crank of the feed-roller. This feed-roller is arranged transversely within the hopper, having its bearings in the side walls thereof, and is provided with a suitable number of radial teeth for feeding the seed to the discharge-opening. In the bottom of this hopper is provided a transverse slot, *P*, and at opposite sides thereof are pivoted throat-plates *i*. These plates are pivoted at one end only, the same being at opposite ends with relation to each other. These plates are also provided at the ends opposite to those which are pivoted with rods *k*, the opposite ends of which pass out through perforations in side walls of the hopper, and also through plates *Q* arranged on the outer sides thereof. These rods are de-

signed to be used for regulating the throat of the hopper, and may be threaded to engage threads in the perforations of the plates Q, so that by turning the said rods to the right or left the throat-plates may be drawn apart or brought together and the discharge-aperture regulated as desired.

We are aware that prior to our invention a seed-planter having a horizontal feed-slide operated by pitman-connection with the cranked axle of the transporting-wheel, such as shown in Patents Nos. 179,723 and 102,004, have been invented, and we do not claim such device, broadly; but

Having described this invention, what we claim is—

The combination, with the main frame *a*, constructed as shown and described, provided

with the hopper, covers G, and transporting-wheel F, of the vibrating-lever J, pivoted at its lower end to the side of the frame, and pivoted at its middle to the lateral arm L, secured to the feed-slide *g* and operated by means of the pitman I, which is connected at its lower end to the crank-axle *e*, the upper end thereof being pivoted to the upper end of the lever J, the whole arranged to operate as shown and described.

In testimony whereof we affix our signatures in presence of two witnesses.

GEORGE W. WILLIAMS.
JOSEPH HOOK.

Witnesses:

WM. M. FERGUSON,
R. H. HEARRELL.