

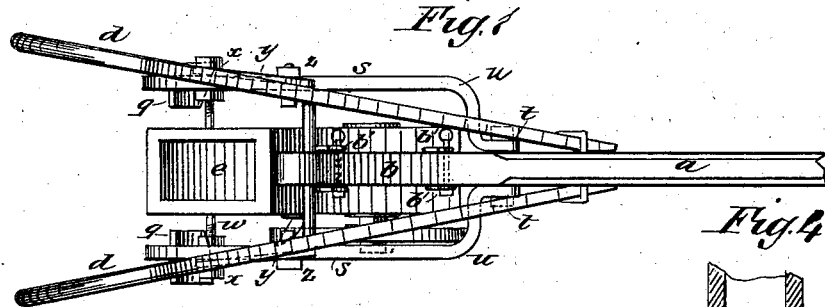
(Model.)

L. PIETZSCH, J. J. ARMSTRONG & J. R. LOWREY.

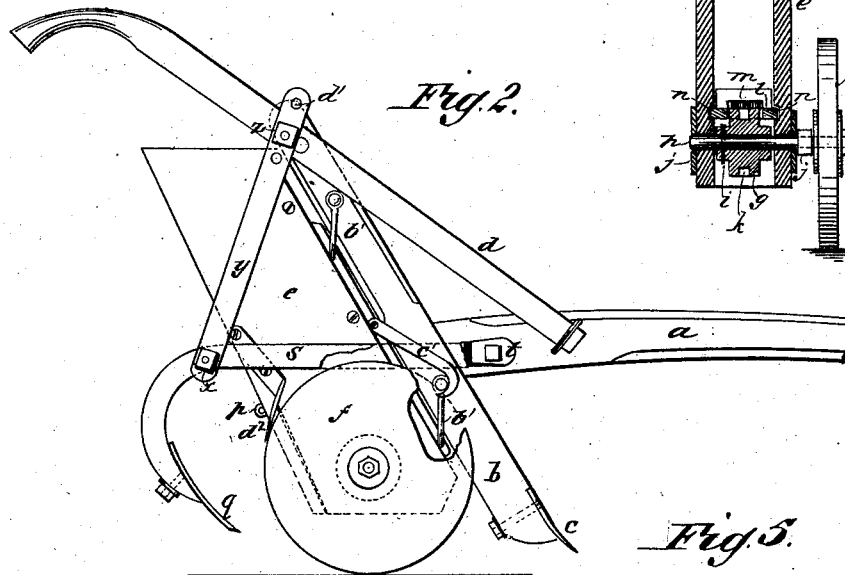
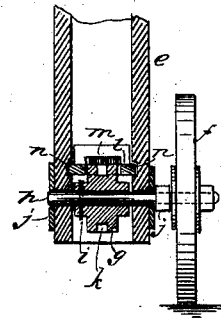
SEED PLANTER.

No. 302,025.

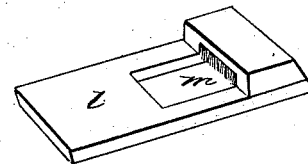
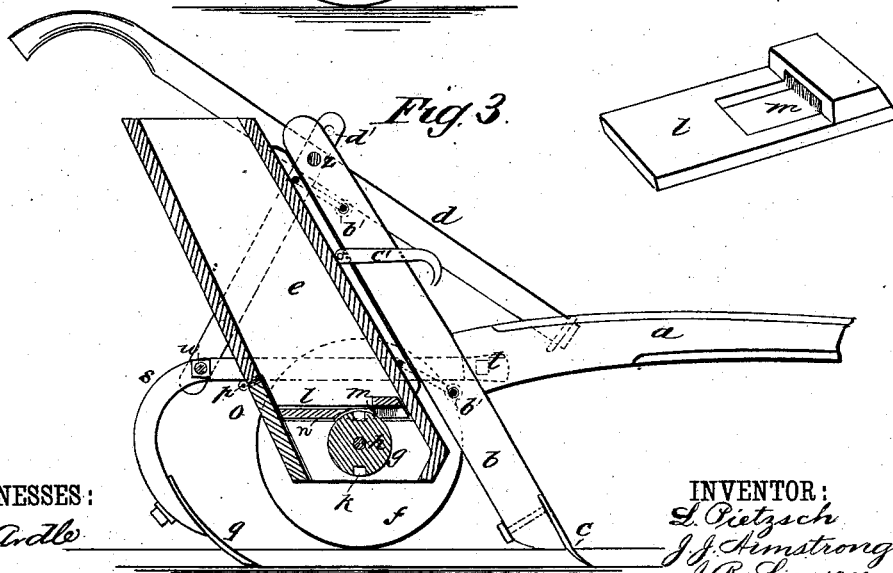
Patented July 15, 1884.



*Fig. 4.*



*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

LOUIS PIETZSCH, JOHN J. ARMSTRONG, AND JOSEPH R. LOWREY, OF  
WEIMAR, TEXAS.

## SEED-PLANTER.

SPECIFICATION forming part of Letters Patent No. 302,025, dated July 15, 1884.

Application filed June 15, 1882. (Model.)

*To all whom it may concern:*

Be it known that we, LOUIS PIETZSCH, JOHN J. ARMSTRONG, and JOSEPH R. LOWREY, of Weimar, Colorado county, Texas, have invented a new and Improved Seed-Planter, of which the following is a full, clear, and exact description.

This invention consists of improvements on the cotton-seed-planting machine patented by J. M. Brooks the 11th day of February, 1873, No. 135,766, whereby the cotton-seed-dropping apparatus may be readily displaced and apparatus substituted for corn and other seeds, and also whereby the machine may be utilized for cultivating the ground to better advantage than as heretofore made, all as hereinafter fully described, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of our improved seed-planter. Fig. 2 is a side elevation with some of the parts broken out. Fig. 3 is a longitudinal sectional elevation. Fig. 4 is a detail in transverse section through the seed-dropping apparatus, and Fig. 5 is a perspective view of the bottom to the seed-hopper as we arrange it.

*a* is the beam; *b*, the plow-stock; *c*, the plow; *d*, the handles; *e*, the seed-hopper of the wheel, and *g* the seed-dropping roller, provided with cells *k*. The seed-dropping roller *g* is fitted on the axle *h* so as to slip off and on readily, and is secured thereon by a pin, *i*. The axle *h* revolves in bearing *j* on the sides of the seed-hopper *e*, and can readily be slipped in and out of the said bearings by removing the pin *i* when it is desired.

*l* is the dropping-slide fitting in grooves in the sides of the hopper, and provided with the brush *m*, which serves as a cut-off.

*O* is a door hinged at *p* to the rear of the hopper, so as to permit the insertion and removal of the slide.

The door can be fastened by screws or any other approved means. *q* are shovel-plows secured to the curved beams *s*, said beams be-

ing pivoted to the main beam *a* at *t* in advance of the seed-hopper, and bent outward therefrom at *u* to clear the sides of the seed-hopper. Behind the hopper said beams are connected by a rod, *w*, to each other with adjusting-nuts *x*, by which the plows can be shifted to increase or lessen the distance between them as may be required. Said beams are also connected to the handles *d* by means of bars *y*, which are to hold the plows in the ground, and these bars *y* are adjustable up and down along the handles by the bolts *z* and holes *d'*, so that the plows may be varied as to their depth in the ground.

The seed-hopper and plow-stock are connected together by the clevises *b'* in such a way as to allow the plow-stock to swing up on the hopper, as shown in Fig. 2; and we have provided a hook, *c'*, in combination therewith to hook onto the pin of the lower clevis when the plow-stock is thus elevated, and hold it in that position for being carried over the ground when so required.

*d''* represents a scraper attached to the seed-hopper in such relation to the wheel *f* that it will remove sticky soil that adheres to it.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. The combination, with the beam *a*, the hopper *e*, and the handles *d*, of the curved beams *s*, pivoted at their forward ends to the beam in advance of the hopper, and provided with plows *q*, and the bars *y*, pivoted to said beams *s*, and handles *d*, substantially as and for the purpose set forth.

2. The combination, with the plow-stock *b* and hopper *e*, of the clevises *b'* and the hook *c'*, adapted to engage with the pin of one of the clevises, substantially as shown and described, whereby the said stock is adapted to be swung upon the hopper and held, as set forth.

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Witnesses:

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