

(No Model.)

L. S. FLATAU.
COTTON PLANTER.

No. 307,283.

Patented Oct. 28, 1884.

Fig: 1.

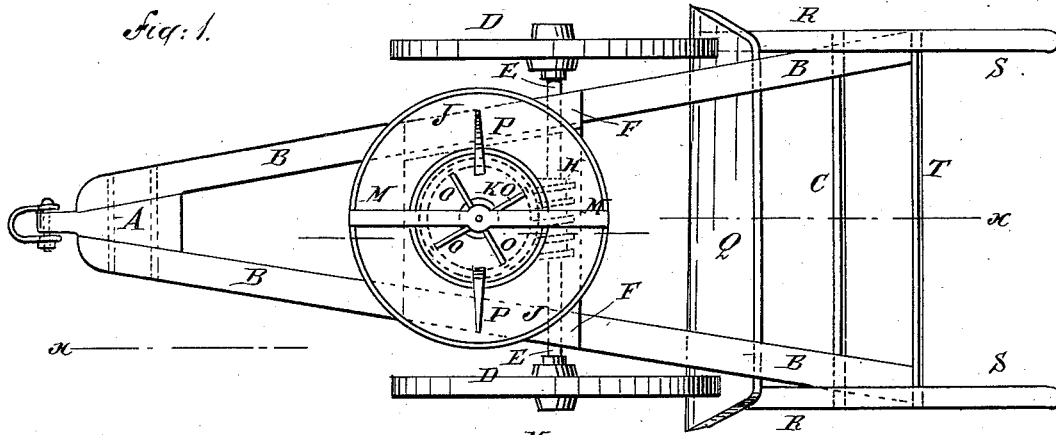


Fig: 2.

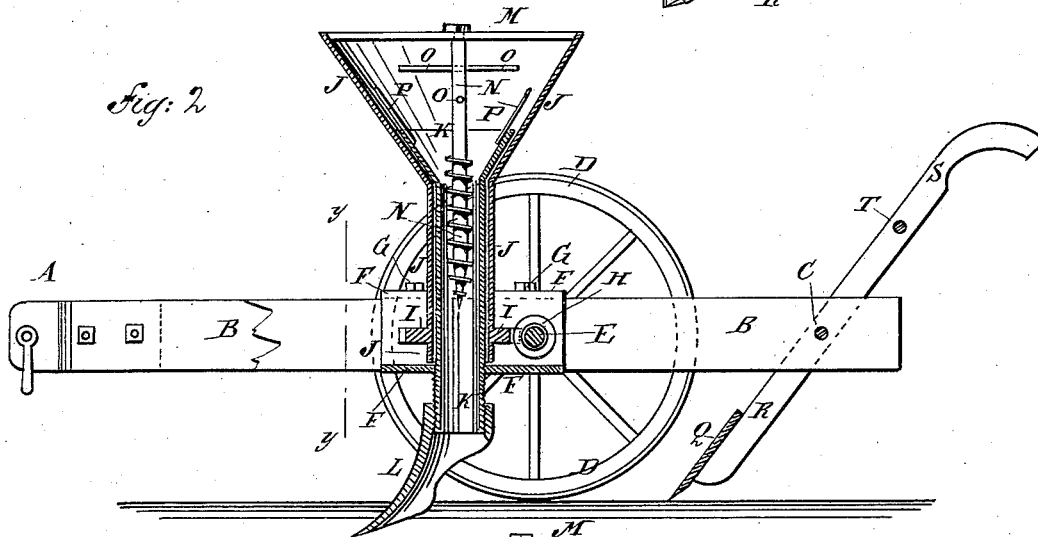
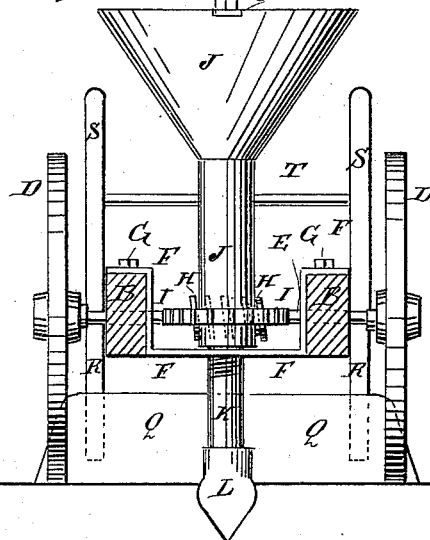


Fig: 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

LOUIS S. FLATAU, OF PITTSBURG, TEXAS.

COTTON-PLANTER.

SPECIFICATION forming part of Letters Patent No. 307,283, dated October 28, 1884.

Application filed April 10, 1884. (No model.)

To all whom it may concern:

Be it known that I, LOUIS S. FLATAU, of Pittsburg, in the county of Camp and State of Texas, have invented a new and useful Improvement in Cotton-Planters, of which the following is a full, clear, and exact description.

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

Figure 1 is a plan view of my improvement. Fig. 2 is a side elevation of the same, partly in section, through the line *xx*, Fig. 1. Fig. 3 is a sectional front elevation of the same, taken through line *yy*, Fig. 2.

The object of this invention is to simplify the construction of cotton-planters and promote certainty in the operation of such planters.

The invention consists in a cotton-planter constructed with a funnel-shaped hopper, supported by a plate and frame carried by wheels, and an axle driven by a worm and worm-wheel, and held erect by a stationary tube having a flaring upper end, and carrying the furrow-opening plow. With the rotating hopper is connected a screw extending into the stationary tube, so that the seed will be fed out by the revolution of the said hopper. With the shank of the feed-screw and the flared upper end of the stationary tube are connected stirrer-arms, so that the seed will be kept loose as the hopper is revolved, as will be hereinafter fully described.

A is a draw-bar, to the opposite sides of which are attached the forward ends of two beams, B. The beams B incline from each other, and are connected at their rear ends by a bar or rod, C.

D are the drive-wheels, one or both of which are rigidly attached to the axle E. The axle E revolves in bearings in the beams B, and in the vertical parts of the plate F, the end parts of which are bent upward and then outward to fit against the inner and upper sides of the beams B, and are secured to the said beams by the bolts G.

To the axle E is attached, or upon it is formed, a worm, H, the threads of which mesh into the teeth of the worm-wheel I, attached

to the tubular lower part of the hopper J. The lower end of the tubular lower part of the hopper J rests and turns upon the plate F. The upper part of the hopper J is made funnel-shaped and of any desired size.

Within the tubular lower part of the hopper J is placed a tube, K, the upper end of which is flared or made funnel-shaped to fit into the lower part of the funnel-shaped upper part of the hopper J. The lower part of the tube K has a screw-thread formed upon it, and is screwed into a screw-hole formed in the plate F, so that the said tube K will be held stationary and will serve as a journal for the hopper J to revolve upon. The lower end of the tube K projects below the plate F, and upon it is screwed the tubular shank of the plow L, by which a furrow is opened to receive the seed.

To the top of the hopper J is secured a cross-bar, M, to the center of which is secured the shank of the screw N. The screw N extends down into the upper part of the tube K, and is revolved by and with the hopper J, so as to feed the seed into the tube K, through which the said seed drops into the furrow opened by the plow L.

To the shank of the screw N are attached radial arms O, to agitate the seed in the upper part of the hopper J and cause the said seed to pass down readily to the upper end of the tube K.

To the funnel-shaped upper end of the tube K are attached arms P, which project upward along the sides of the hopper J, to loosen the seed along the sides of the said hopper J and cause the said seed to pass down readily. With this construction, as the seed is drawn forward the hopper J is revolved, turning the screw N and feeding the seed into the tube K. As the seed drops into the furrow it is partially covered by the soil falling into the said furrow in the rear of the plow L. The covering of the seed is completed and the top of the ridge is smoothed off by a covering-board, Q, attached to the standard R, which may be the downward extension of the handles S, or separate standards, as may be desired. The upper parts of the handles S are connected by a round, T, to keep them in proper position.

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

1. In a cotton-planter, the frame B, the drive-wheels and axle D E, the worm and worm-wheel H I, the rotating funnel-shaped hopper J, having the feed-screw N, provided with radial stirrers O, the stationary tube K, provided with stirrers P, the plow L, and the supporting-plate F, in combination, substantially as and for the purpose set forth.

2. In a cotton-planter, the combination, with the funnel-shaped hopper J, the supporting-plate F, and the plow L, having tubular shank, of the tube K, having flared upper end, substantially as herein shown and described, whereby the hopper is held erect, the plow is supported, and the seed is conducted to the ground, as set forth.

3. In a cotton-planter, the combination, with the rotating hopper J, and the stationary tube K, of the screw N, substantially as herein shown and described, whereby the said screw is operated to force out the seed by the revolution of the said hopper, as set forth.

4. In a cotton-planter, the combination, with the feed-screw N, the rotating hopper J, and the flaring top of the stationary tube K, of the arms O and P, substantially as herein shown and described.

LOUIS S. FLATAU.

Witnesses:

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W. A. HIGHTOWER.