(No Model.)

E. TRUSS.

COTTON PLANTER.

No. 429,102. Patented May 27, 1890.

Fig. 1.

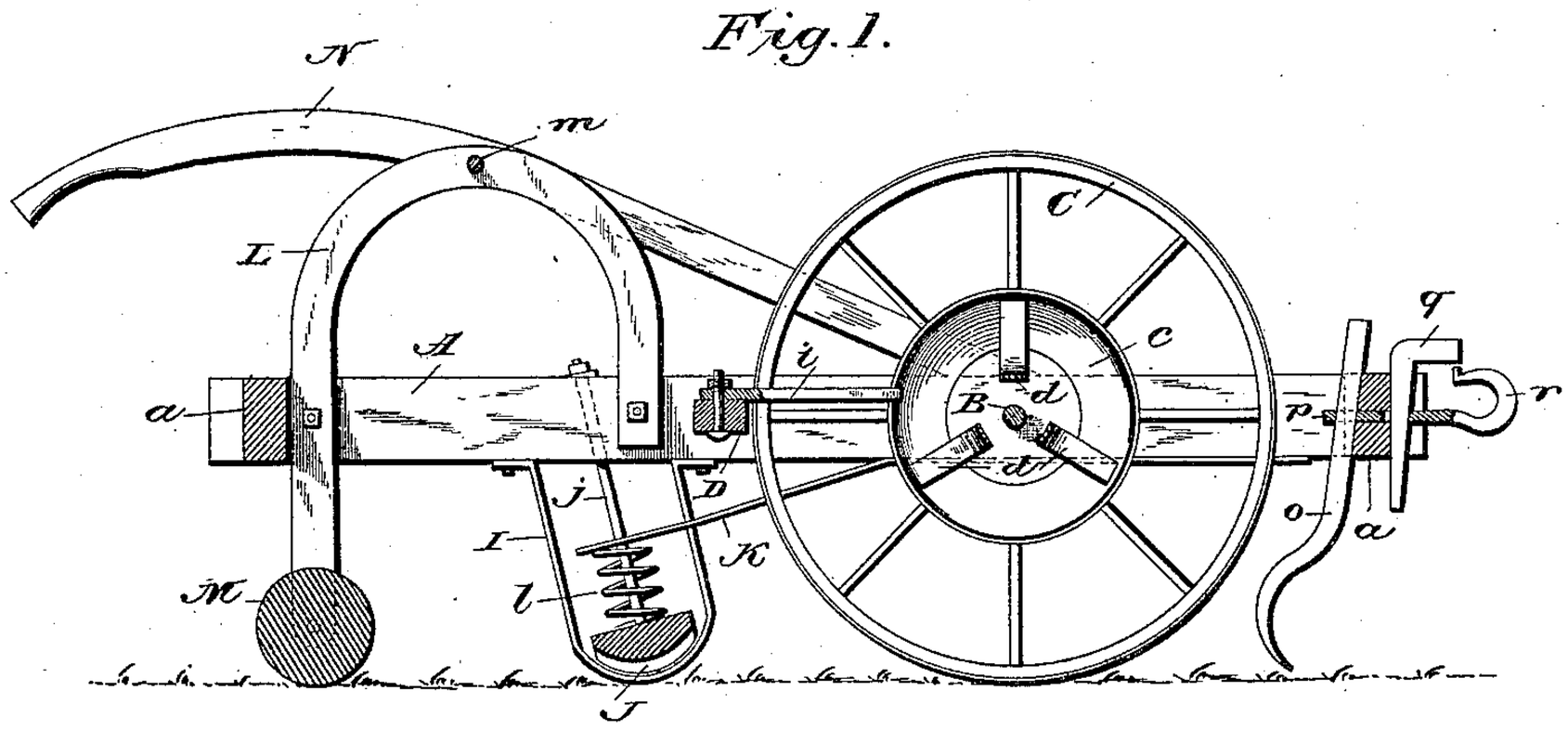


Fig. 2.

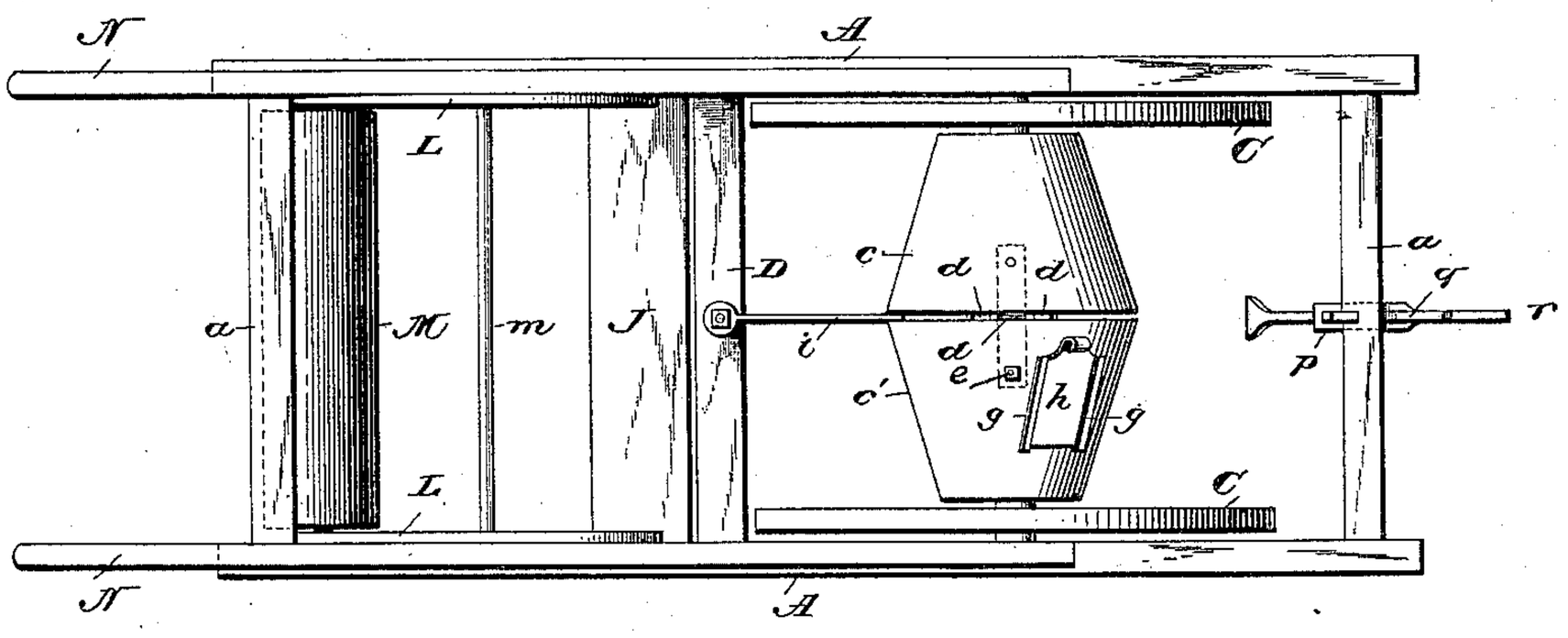
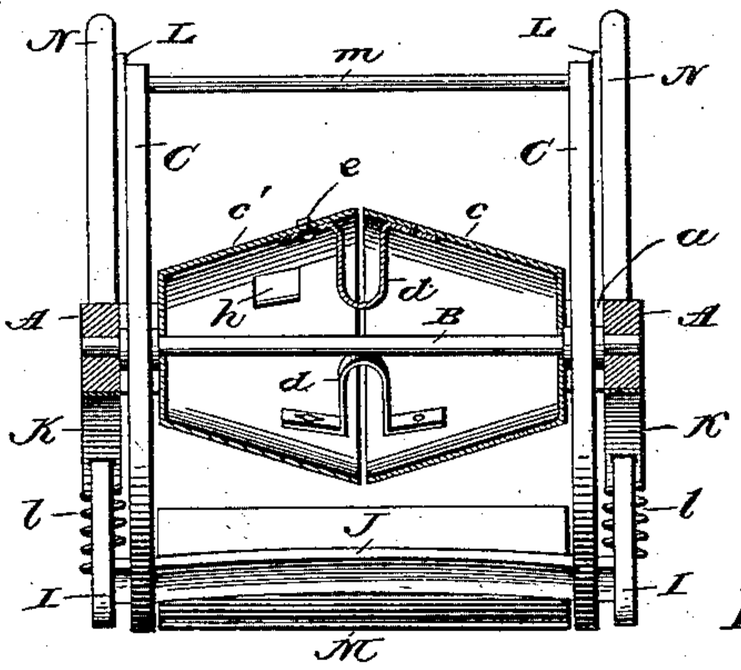


Fig. 3.



Witnesses
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By his Attorneys

UNITED STATES PATENT OFFICE.

ESAU TRUSS, OF OSCEOLA, ARKANSAS, ASSIGNOR OF ONE-HALF TO BENJAMIN F. BUTLER, OF SAME PLACE.

COTTON-PLANTER.

SPECIFICATION forming part of Letters Patent No. 429,102, dated May 27, 1890.

Application filed September 12, 1889. Serial No. 323,739. (No model.)

To all whom it may concern:

Be it known that I, ESAU TRUSS, a citizen of the United States of America, residing at Osceola, in the county of Mississippi and State of Arkansas, have invented certain new and useful Improvements in Cotton-Planters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to cotton-planters; and it consists in the improved construction hereinafter described and set forth, whereby a simple and efficient means is provided that will readily and positively plant the cotton, cover the same, and roll the ground.

In the accompanying drawings, Figure 1 is a central longitudinal section of a cotton-planter embodying my improvements. Fig. 2 is a plan view of the same, and Fig. 3 is a transverse section in the plane of the drum and its shaft.

The main frame of the machine, consisting of side bars A and front and rear bars *a a*, supports near its forward end a transverse axle B, upon which is mounted to turn therewith a hopper-drum consisting of two main carrying-wheels C C, provided on their inner sides with two conical shell-sections *c* and *c'*, the larger ends of which lie adjacent to each other, as shown in Fig. 2. The section *c* is interiorly provided with a series of angular straps *d*, which are of a spring character and have their free ends bent to lie parallel with the inner face of the section *c'*, so that securing-bolts *e* can be passed through slots formed in said bent ends and adjustably secure said straps to the section *c'*. The section *c'* is provided with an opening, on either side of which lie guide-flanges *g*, in which slides a plate *h*, adapted to close said opening.

Within the main frame and parallel with the axle B is a transverse bar D, centrally perforated for the passage of a bolt designed to secure upon the upper side of said bar a longitudinally-extending arm *i*, the forward end of which is positioned near the adjacent edges of the shells *c* and *c'*.

A yoke-strap I depends from the under side of each side beam of the main frame at a slight inclination, as shown in Fig. 1, and carries centrally and integrally a rod *j*, which passes up through the beam and is secured at its upper end by means of a nut engaging threads thereon. A curved transverse covering-bar J has its ends perforated to play vertically upon the rods *j* of each of the side yokes, and said covering-bar is normally held in a depressed position at each end by means of a coiled spring *l*, one end of which bears upon the upper face of the bar, while the other end bears against the curved extremity of leaf-springs K, secured longitudinally on the under side of each side bar.

Curved metallic bars L are secured on the inner sides of the side bars, and the rear portion of each bar L depends for a slight distance below the main frame to form hangers for a transverse roller M, the journals of which turn in perforations formed in the enlarged bearing ends of said hangers. The said curved bars are perforated at their highest portions for the passage of the threaded ends of a transverse rod *m*, which also sustains the inclined handles N, rigidly secured at their forward ends upon the upper face of the side bars of the frame adjacent to the drum.

The front bar of the frame is provided on its rear side and at the center thereof with a vertical channel, in which bears the shank portion of a cultivator-shovel *o*, the said shank portion being rigidly secured in position by means of a clip *p*, which embraces said shank and passes through said bar for the insertion at the front side thereof of a pin or key *q*. By reference to Fig. 1 it will be noticed that the front portion of said clip has integrally combined therewith a clevis-hook *r*, the free bent end of which is arranged in such relation to the horizontal head portion of the pin as to practically close the clevis-hook and avoid the tendency of the draft device becoming detached therefrom.

In practice the cotton-seed is introduced into the drum formed by the shells through the opening in the section *c'*, and as the machine is moved over the ground the cultivator-shovel makes a channel in which the seed is to be deposited, the drop of the latter being effected through the rotation of the drum, which causes the seed to lodge in the angular straps, from which it is dislodged by the projecting arm. The covering-bar then comes into play, and by reason of its curved form and connection covers the earth back upon the seed and the earth rolled through the medium of the roller. The freedom with which the seed is passed from the drum is regulated by the width of the central opening, controlled by the adjustment of the strap-connections.

I claim—

1. The combination, in a cotton-planter, of the main frame, its axle, and carrying-wheels rotating on said axle, a seed-drum rotated with said wheels and consisting of two independent shells *c* and *c'*, respectively secured to said carrying-wheels, and a fixed arm extending between the adjacent edge portion of said shells, and devices located at the adjacent portions of said shells and connecting them thereat, substantially as set forth.

2. The combination, in a cotton-planter, of the main frame, its axle, and carrying-wheels rotating on said axle, a seed-drum rotating with said wheels and consisting of two independent shells *c* and *c'*, respectively secured to said carrying-wheels, devices located internally at the adjacent portions of said shells for adjusting them relative to each other, and a fixed arm extending between the said shells, substantially as set forth.

3. The combination, in a cotton-planter, of the main frame-axle and rotating seed-drum revolving thereon and consisting of shells *c c'*, adjustably connected, depending yokes having guide-rods located at an angle, as described, a curved transverse covering-bar playing upon said rods, and spring or springs seated in said yoke and bearing upon said bar, substantially as set forth.

4. The combination, in a planter, a seed-hopper, and planting devices, of a cultivator and its shank and a clip for clamping the latter in position, together with a movable key for engaging the forward portion of the clip, substantially as set forth.

5. The combination, in a planter having a seed-hopper and planting device, of a cultivator and its shank, clip for clamping the latter in position and projecting beyond the front end of the frame, a clevis-hook formed integral with said clip and having its free end bent vertically, and a removable key to engage the front portion of the clip, and having the upper bent end extending adjacent to the bent end of the clevis, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

his
ESAU × TRUSS.
mark

Witnesses:
S. S. SEMMES,
F. M. SEMMES.