

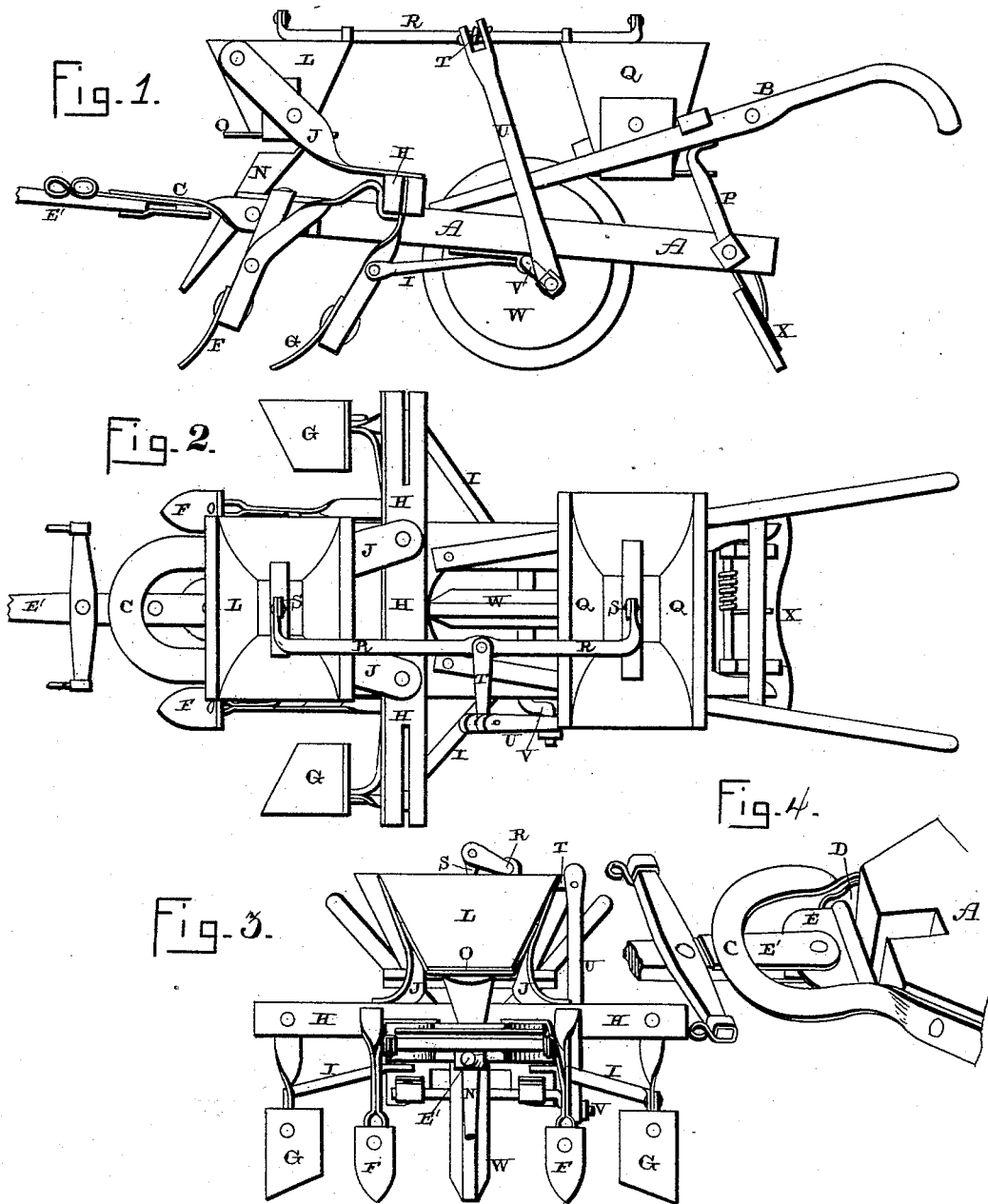
(No Model.)

C. T. CHAPMAN.

COTTON PLANTER AND FERTILIZER DISTRIBUTER.

No. 423,311.

Patented Mar. 11, 1890.



Witnesses:

E. J. Ellis,
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per
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UNITED STATES PATENT OFFICE.

COIT TIMOTHY CHAPMAN, OF ELLIOTT, SOUTH CAROLINA.

COTTON-PLANTER AND FERTILIZER-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 423,311, dated March 11, 1890.

Application filed November 15, 1889. Serial No. 330,407. (No model.)

To all whom it may concern:

Be it known that I, COIT TIMOTHY CHAPMAN, of Elliott, in the county of Sumter and State of South Carolina, have invented certain
5 new and useful Improvements in a Combined Cotton-Planter and Fertilizer-Distributor; 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
10 the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in
15 combined cotton-planters and fertilizer-distributors; and it consists in the combination and arrangement of parts, which will be more fully described hereinafter, and particularly pointed out in the claims.

20 The object of my invention is to provide a machine by means of which the fertilizer is discharged in advance of the cotton-seed, and then covered up and the cotton-seed deposited in the bed which has been prepared for it
25 upon the top of the fertilizer.

Figure 1 is a side elevation of a machine which embodies my invention. Fig. 2 is a plan view of the same. Fig. 3 is a front view. Fig. 4 is a detached view.

30 A represents a suitable frame, to which the handles B are secured in the usual manner. To the front of this frame is secured the metallic plate or casting C, which extends forward beyond the front end of the frame any
35 suitable distance, and also secured to the front end of the frame in between the ends of the plate C are the ears or castings D, between which the plate or casting E is pivoted. This plate or casting has a vertical movement
40 at its outer edge, and pivoted to this plate is the tongue E', which has a turning movement at right angles to the movement of the plate or casting. This construction gives to the tongue a universal movement. The upper
45 surface of the rear end of the tongue bears against the under side of the plate C, and thus prevents the front end of the frame from falling below a certain point. By this means the depth to which the plows at the front of the
50 frame shall run is regulated. The front end of the tongue can be dropped down or the

front end of the frame can be elevated to any desired extent without interfering with the tongue; but the front end of the frame can only sink downward until the plate or casting
55 C strikes against the top of the tongue. At the front end of the frame, in the rear of the lower end of the fertilizer-conveying tube, are secured the two small covering-plows F, which throw the earth upon the fertilizer as fast as
60 it is dropped, and in the rear of these two plows F are the two wider plows G, which turn up the earth and prepare a bed for the cotton-seed which are dropped behind. These
65 two plows G are placed outside of the two smaller ones F, and in order to allow this to be done a brace or bar H is secured to the top of the frame A and extends beyond its edges any suitable distance. The standards of the
70 plows G are secured directly to the under side of the cross-bar H, and then these standards are braced by the rods I, which have their inner ends secured to the under side of the frame A.

Secured to the top of the cross-bar H are
75 the two supports J, which extend forward and upward, as shown, and secured between the upper ends of these supports J is the fertilizer-box L, from the under side of which projects downward the conveyer-tube N. The
80 bottom of this box L is formed of a slotted sliding plate O, which can be moved endwise, so as to uncover the slot through it and allow the fertilizer to drop into the tube below, or which can be so moved as to carry the slot
85 back from under the box, and thus shut off all flow of fertilizer.

Placed upon the handles B, which are supported in position by the braces P, is the cotton-seed box Q, which is also provided with
90 a slotted movable bottom, through which the seed are forced. Pivoted upon the tops of both of the boxes is the partially-rotating cranked shaft R, which has a rod S attached to each of its ends for forcing the fertilizer
95 and the seed out through the bottom of the boxes at the same time. Near the center of this partially-rotating shaft is an arm T, which projects outward any suitable distance, and to this arm T is fastened the upper end of the
100 connecting-rod U, which is fastened at its lower end to the crank V upon one end of

the shaft of the wheel W, which forms a furrow as it passes over the bed which has been formed to receive the seed, and into this furrow the cotton-seed are dropped. The space
5 between the boxes is preferably regulated so that the cotton-seed will be dropped upon the top of the fertilizer which has been dropped from the box L. To the rear end of the frame is attached the spring-actuated covering device X, which covers the cotton-seed in the
10 usual manner.

It will be seen that a single mechanism expels the fertilizer from one box and the seed from the other, and that a very cheap and
15 simple machine is thereby produced.

Having thus described my invention, I claim—

1. The combination of the frame A and the metallic plate or casting C, which projects beyond its front end, with the pivoted plate or
20 casting and the tongue pivoted thereto, the said casting being pivoted to the front end of the frame, whereby the tongue regulates the depth to which the plow shall run, substantially as shown.
25

2. The combination, in a combined fertilizer and seed-planter, of the main frame, the fertilizer and seed boxes placed upon oppo-

site ends thereof, a longitudinal rocking shaft journaled at each end upon the boxes, respectively, and having its ends bent into cranks,
30 an arm extending outward therefrom at or near its center, the driving-wheel having a crank, a rod connecting the said arm and crank, and stirrers connected to the bent ends
35 of the shaft, substantially as shown and described.

3. The combination of the frame, the cross-bar H, secured thereto, the plows G, secured to the cross-bar, the smaller plows secured to
40 the frame inside of the plows G and in the rear of the fertilizer-conveying tube, the fertilizer and seed boxes placed upon opposite ends of the frame, the fertilizer-conveying tube, the wheel W, provided with a cranked shaft,
45 the connecting-rod, the partially-revolving rod journaled upon both of the boxes, and the vertically-operating rods connected to opposite ends of the partially-turning cranked rod, substantially as set forth.
50

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

COIT TIMOTHY CHAPMAN.

Witnesses:

FRIDAY HARRIOTT,
JAMES CHAPMAN.