

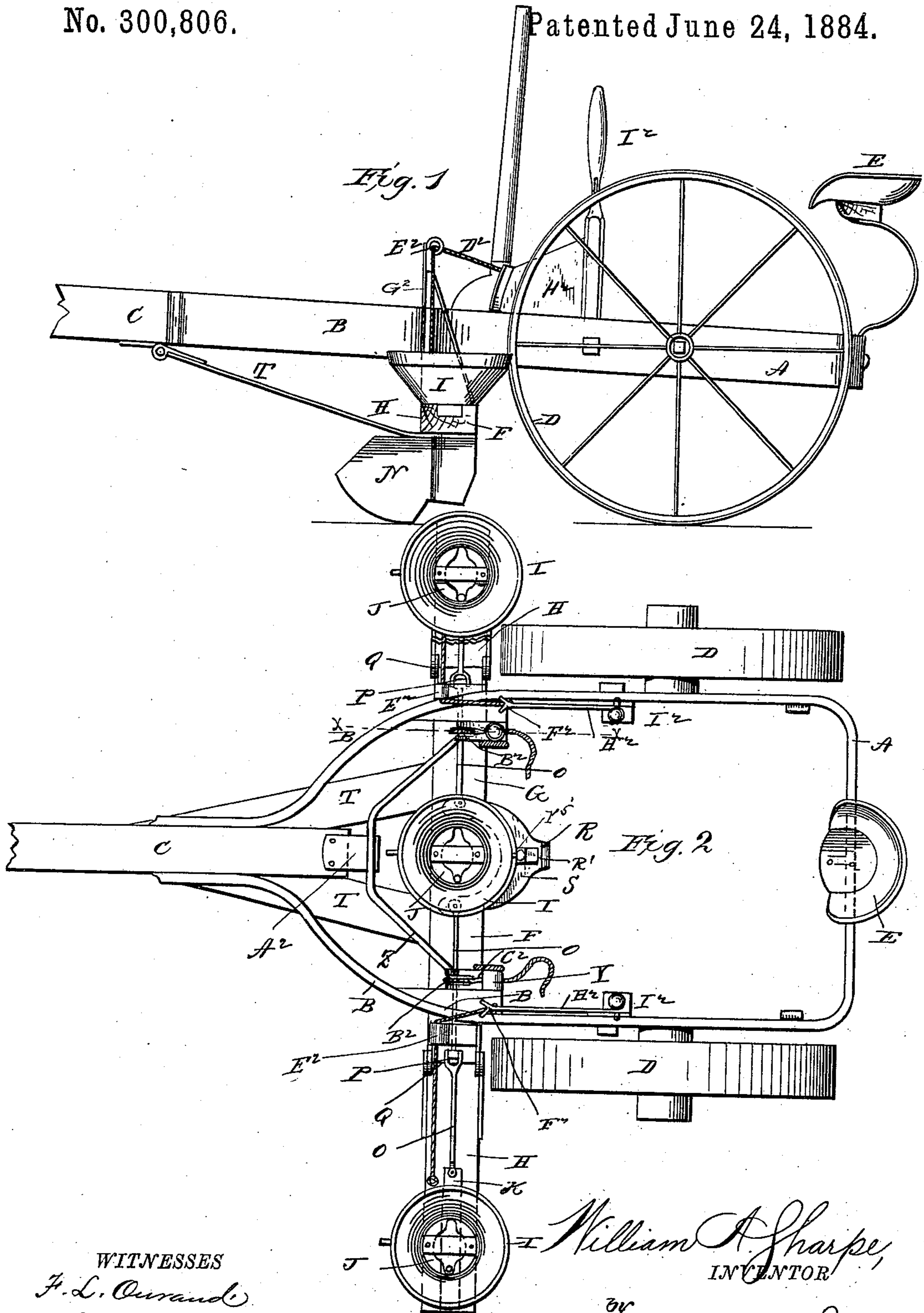
(No Model.)

2 Sheets—Sheet 1.

W. A. SHARPE.  
CORN PLANTER.

No. 300,806.

Patented June 24, 1884.



WITNESSES  
F. L. Ourand  
J. Reed Littel,

William A. Sharpe,  
INVENTOR

by C. A. Snow & Co.

Attorneys

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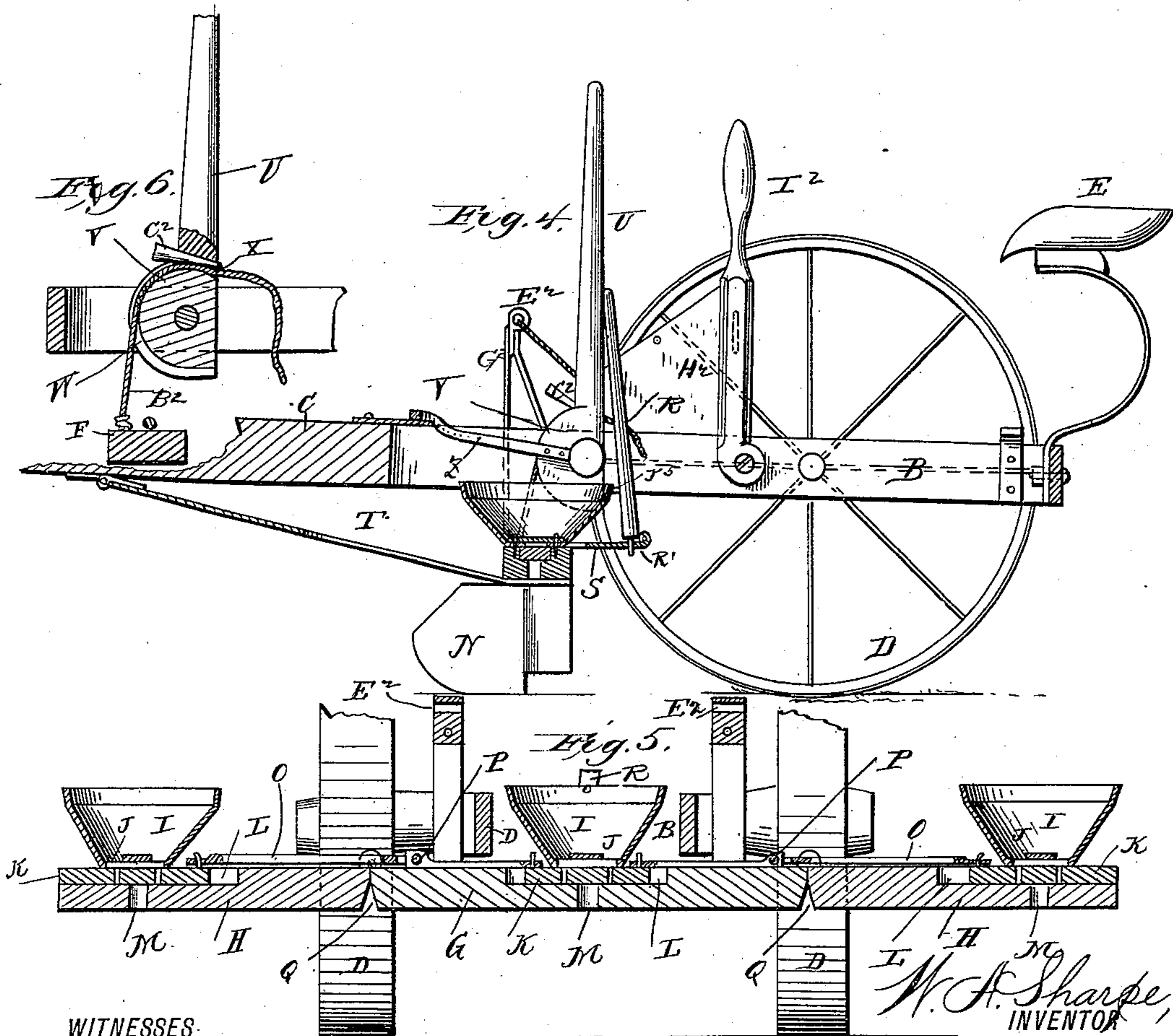
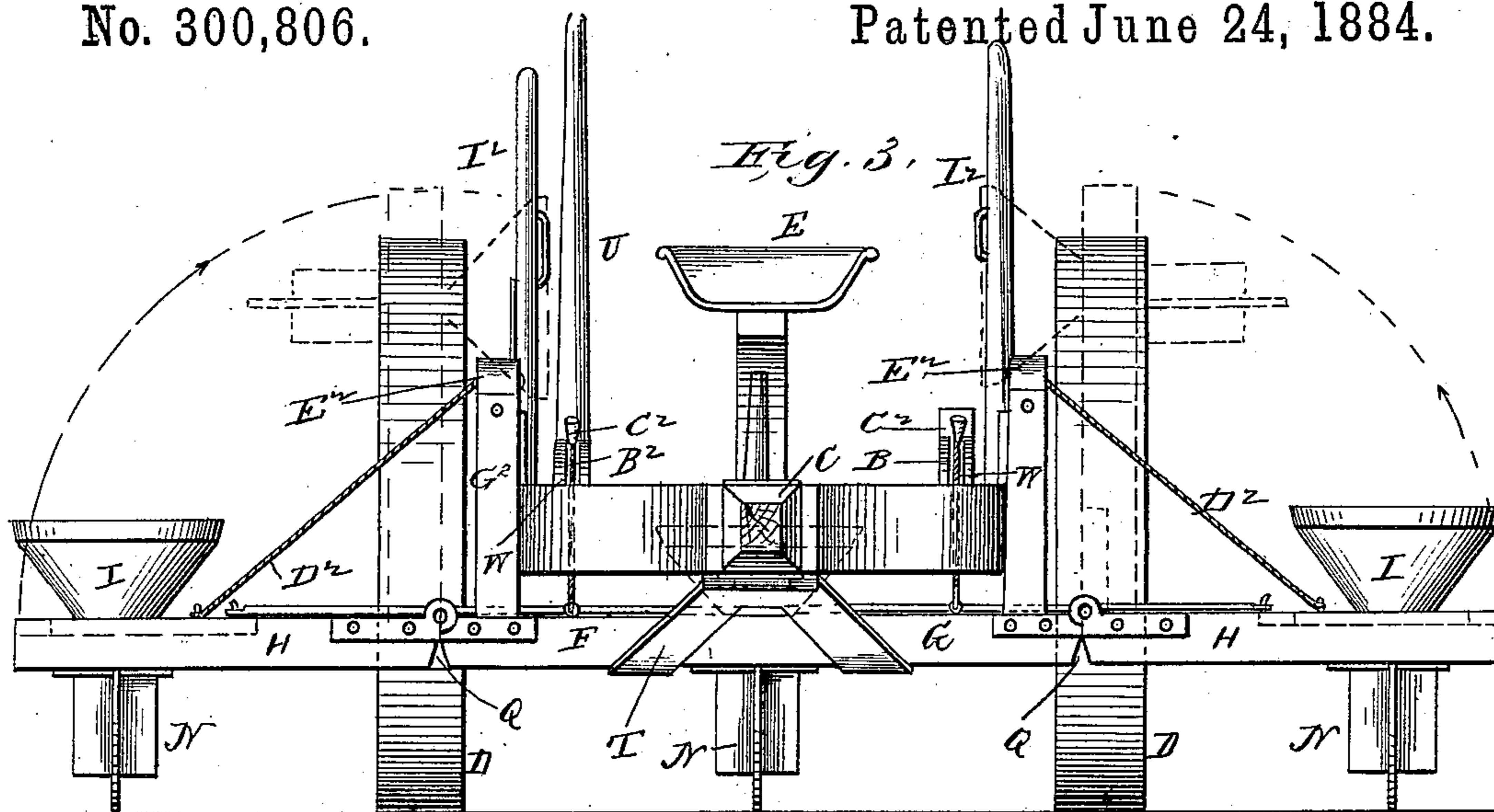
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F. L. Curran

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# UNITED STATES PATENT OFFICE.

WILLIAM AUSTIN SHARPE, OF TAMA, IOWA.

## CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 300,806, dated June 24, 1884.

Application filed September 8, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM A. SHARPE, a citizen of the United States, residing at Tama, in the county of Tama and State of Iowa, have  
5 invented a new and useful Corn-Planter, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to corn-planters, especially of that class composed of hinged or  
10 jointed sections, adapted to be independently thrown out of operation; and its object is to provide a planter possessing superior advantages in point of simplicity, ease of operation,  
15 and general efficiency.

In the drawings, Figure 1 is a side view of my improved planter. Fig. 2 is a top view of the same. Fig. 3 is a front end view of the same. Fig. 4 is a vertical longitudinal sectional view. Fig. 5 is a vertical transverse  
20 detail sectional view taken through the flexible or hinged bar and looking rearwardly. Fig. 6 is a detail sectional view taken on the line *x x*, Fig. 2.

Referring to the drawings, A designates the frame of the machine, which comprises in its construction forwardly-convergent side bars, B B, between the front ends of which the  
25 tongue or pole C is pivoted, the wheels D D being journaled at the side of said frame, and the seat E being secured at its rear end.

F designates the transverse bar that carries the seeding mechanism. This bar consists of a central portion, G, to which are connected  
35 two end sections, H H, by a flexible hinge or other suitable joint that will admit of said end sections being thrown up out of operation without interfering with the position of the central section. Each of these sections carry  
40 a hopper, I, having its open bottom J arranged over a reciprocating slide, K, that moves in a groove, L, in the bar F over a seed-opening, M, a shoe, N, being secured to the bar at this opening. These slides K are con-  
45 nected by rods O, that have a hinge or flexible joint, P, at the joints Q of bar F, and the seed-slides are adapted to be reciprocated by means of a short rock-lever, R, fulcrumed on the rear side of the central hopper, as shown  
50 at *r*<sup>5</sup>, and having its lower end, R', engaging a

plate, S, projecting rearwardly from the central slide, K, as shown. A suitable seat is to be provided for the dropper, who operates the lever R. The central section, G, is hinged to the tongue or bar C by means of plates T T,  
55 that project forwardly from said section G, and are hinged to the tongue in front of its pivot. By means of this arrangement the said section G can be adjusted vertically under the frame A, to regulate the depth of the plant and  
60 to enable the shoes to be entirely elevated from the ground in turning, so that they will not become clogged. As the end sections are carried by the central sections, the adjustment of the latter of course correspondingly adjusts  
65 said end sections. The adjustment of the central section, G, is effected by means of a lever, U, that is fulcrumed to one of the sides B B, and has a segmental lower end, V, formed with a grooved periphery, W, terminating in  
70 a perforation, X. This lever is connected with a corresponding segmental disk or stub-lever, Y, fulcrumed on the other side piece B of frame A by means of an arched connecting-rod, Z, that engages a plate, A<sup>2</sup>, projecting  
75 from the rear end of the tongue, to limit the downward adjustment of the said central section, G. Cords or chains B<sup>2</sup> B<sup>2</sup> are secured to this section G, and project upwardly, are seated in the guide-grooves W W, and have their  
80 free ends passed through the perforations X X and secured therein by a peg, C<sup>2</sup>, by removing which the cords can be adjusted in the perforations to regulate their relation to the section G. Each end section of bar F is provided  
85 with an elevating-cord, D<sup>2</sup>, that passes up and through an eye, E<sup>2</sup>, on top a standard, G<sup>2</sup>, projecting up from the end of the central section, G. These cords or chains D<sup>2</sup> D<sup>2</sup> are secured to the bifurcated edge F<sup>2</sup> of plates H<sup>2</sup>  
90 H<sup>2</sup>, that are secured to the ends of levers I<sup>2</sup> I<sup>2</sup>, fulcrumed to the side bars, B B. When either of these levers are lowered, the connected cord or chain is received into its bifurcated edge F<sup>2</sup>, and the end section, to which  
95 it is connected, is elevated on its hinge or flexible joint with the central section. By this means one, two, or three rows may be planted, as desired, by simply operating the necessary levers.

I claim as my invention—

1. As an improvement in corn-planters, the combination of the frame of the machine, the central section of the transverse seeding mechanism bar hinged to said frame and vertically adjustable in relation thereto, the end sections of said bar hinged to the central section and carried thereby in its vertical adjustment, and means for independently adjusting the end sections, substantially as set forth.

2. As an improvement in corn-planters, the combination of the frame of the machine, the central section of the transverse seeding mechanism bar having the vertical standards at its ends, the end sections of this bar hinged to the central section, the seeding mechanism arranged directly on these sections and embodying a jointed slide-bar, the cords passing from the end sections up and engaging the standards, and the levers fulcrumed on the main frame and operating these cords, substantially as set forth.

3. The improved corn-planter, comprising the combination of the frame of the machine, the transverse jointed bar carrying the seeding mechanism, a hinged plate or bars hinged to the frame and secured to the central section of the said transverse bar, standards on the

end of the central section, the levers  $I^2$ , fulcrumed on the frame, and having the projecting plates or arms, chains, or cords secured to the end sections and passing through the standards and secured to said levers  $I^2$ , and the lever U, carrying the chains or cords that are connected with the central section, substantially as and for the purpose set forth.

4. As an improvement in corn-planters, the combination of the frame of the machine, the pole or tongue, the central section of the transverse seeding mechanism bar, plates T T, secured to said bar and pivoted to the tongue, the levers U and Y, fulcrumed on the frame, the rod Z, connecting these levers and engaging the end of the tongue, cords connecting the said levers with the said central section, the end sections hinged to the central section, the levers  $I^2$ , fulcrumed on the frame, and the cords connecting these levers and the end sections, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM AUSTIN SHARPE.

Witnesses:

E. S. BECKLEY,  
WM. H. H. TIFFANY.