P. H. ALTSTATT.

Cotton Planters.

2 Sheets--Sheet 1.

Patented June 20, 1871.

No. 116,003.

Fig. 1.

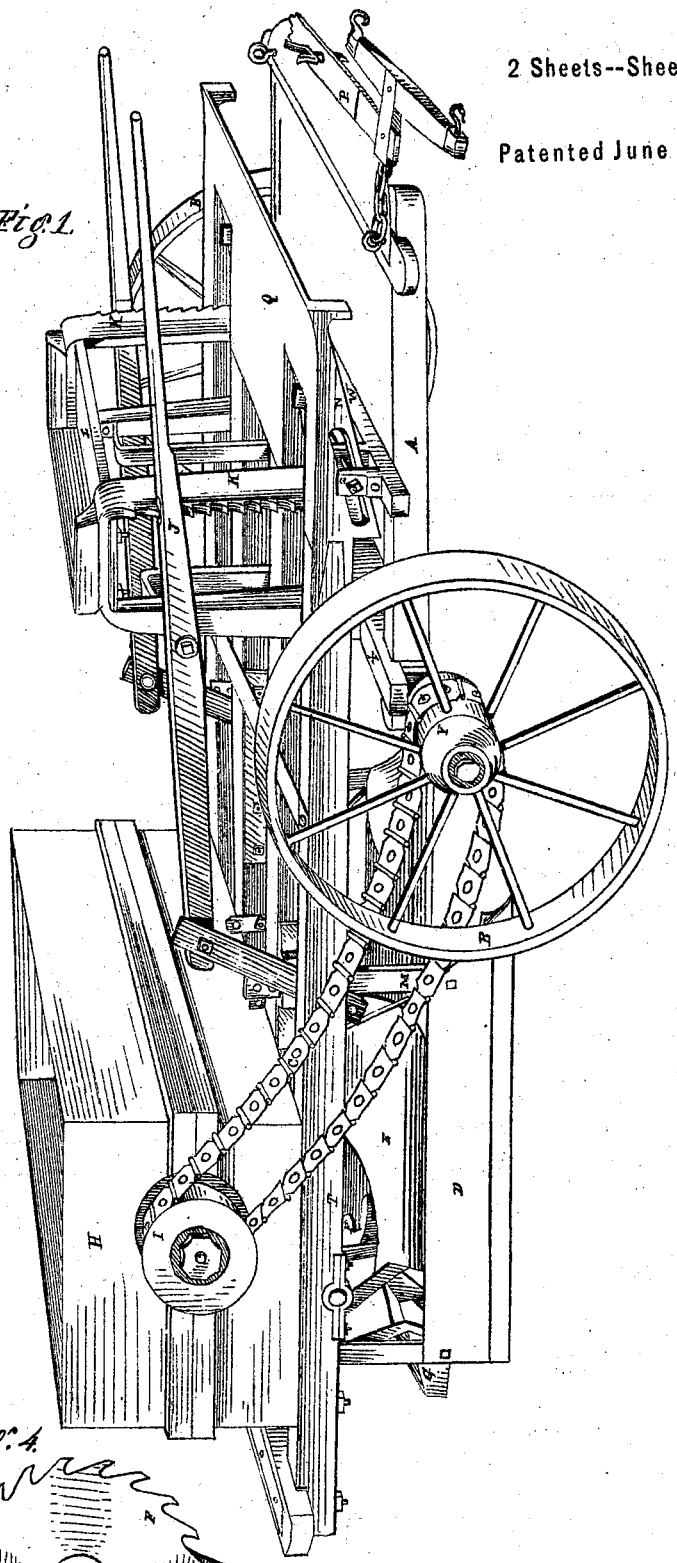
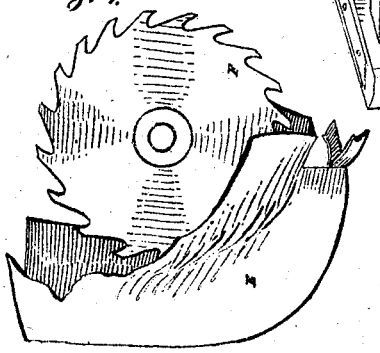


Fig. 4.



Witness;

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2 Sheets--Sheet 2.

Cotton Planters.

Fig. 2.

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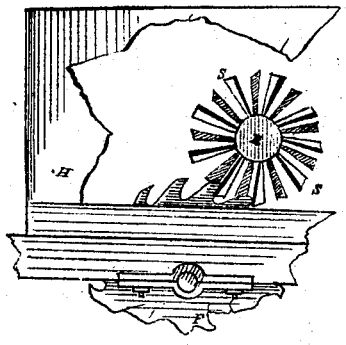
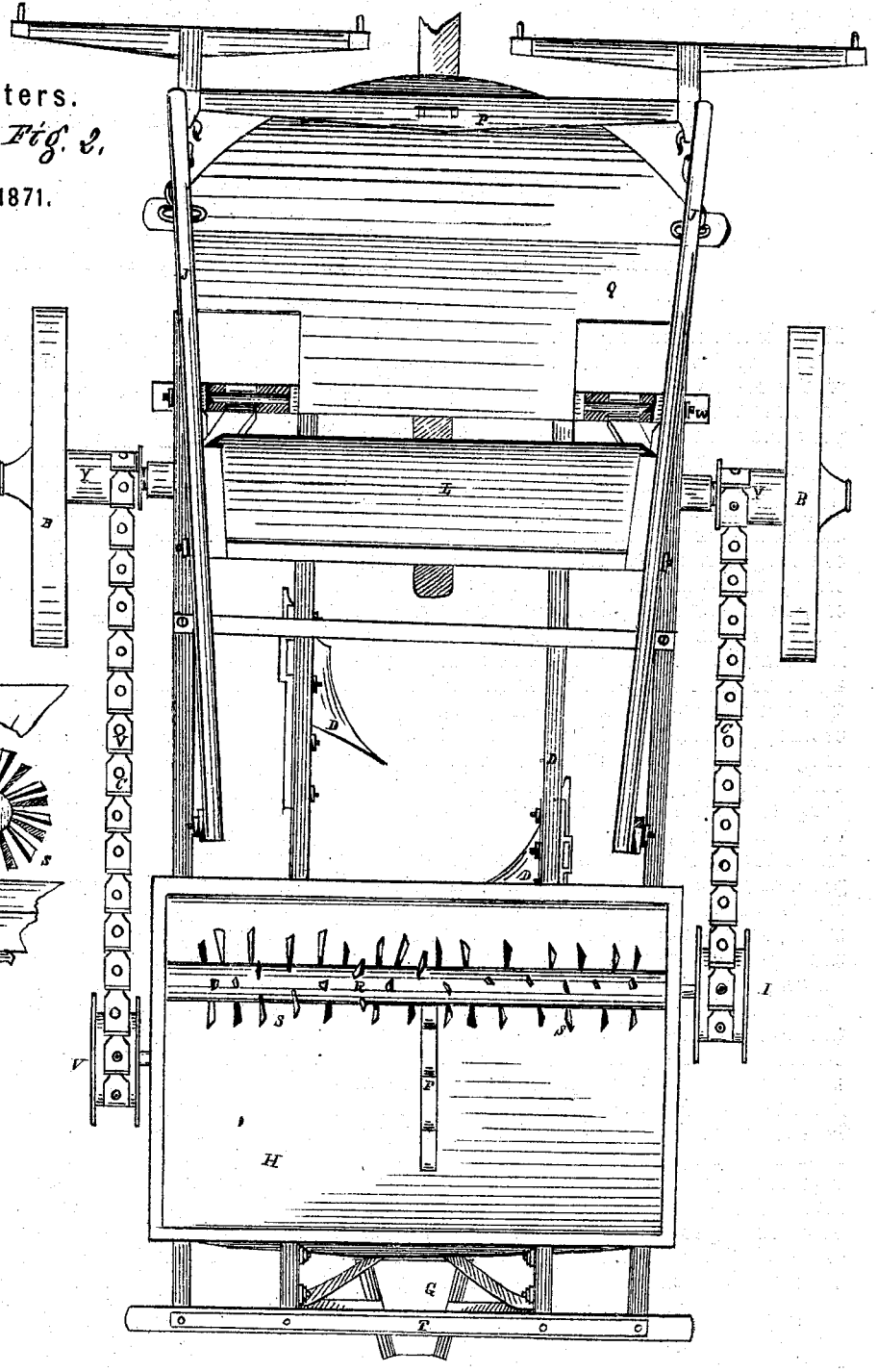
Fig. 3.





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UNITED STATES PATENT OFFICE.

PARKER H. ALTSTATT, OF CLARK COUNTY, INDIANA.

IMPROVEMENT IN COTTON-PLANTERS.

Specification forming part of Letters Patent No. 116,003, dated June 20, 1871.

To all whom it may concern:

Be it known that I, PARKER H. ALTSTATT, of the county of Clark and State of Indiana, have invented a certain new and useful Improvement in Cotton-Planters, of which the following is a specification:

The first part of my invention consists in a small truck, the axle and wheels of which are made somewhat similar to those of a cart, with the tongue mortised into the wooden bolster on top of the axle; and on either side of the tongue near the wheels there are two small pieces mortised into the same bolster parallel with the tongue, and a sufficient distance apart to form a platform for the driver, and, when covered with the necessary iron or wood, securely fastened, answers as a brace for the tongue, and, with the addition of another piece, bolted across the ends, connecting with the tongue, becomes a convenient attachment for the double-tree; and on top of the platform, immediately in front of the truck-axle, is a piece of wood bolted across the frame, on the top of which are secured four or more iron studs, about six inches high, with holes through the upper ends, through which an iron rod passes, by means of which the dropping-wheel frame is attached to the truck; and between the two outside studs, with one foot resting on the cross-piece and the other on the axle, are two elevated stands to support the driver's seat. To the back legs of each stand a lever is secured for the purpose of raising the hind part of the machine in turning, the front legs having notches in the outside to hold the lever in its place when set. These levers may be so arranged as to be operated by the hand or foot. The second part of my invention consists in a wooden frame, composed of four parallel pieces, secured at the back by a piece bolted across the ends, the two inside parallel pieces being placed a sufficient distance apart to suit the plows, the front ends of these parallel pieces being tipped with iron, fitted over and secured to the ends, similar to a clevis, with a projection on the under side similar to the head of an arrow, tapering up on the under side nearly to a point, and then turned down, the upper sides being secured together by an iron plate across the top so as to form a platform for the driver's stand; and immediately under the iron plate or platform there are slot-holes through the widest part of the iron tips, running parallel with the taper of the under side. These holes are intended to answer a treble purpose—first, as a means by which the frame is connected with the truck, which is done by an iron rod through them, securing it to the studs of the truck, and as a means of keeping the driving-chains at all times at the proper tension when in operation, and also to permit the frame to be raised up in order to turn; and immediately under the frame there are secured to the inside parallel pieces two adjustable pioneers or plows for the purpose of raising the row, the top of which is again opened at the same time by a pioneer or cutter in front of the dropping-wheel, after which the seed is dropped in from the wheel and covered as it passes by a coverer behind the wheel. This wheel is made with coarse teeth in the edge, somewhat similar to a circular saw, and hung on a shaft and secured to the under side of the frame in the same manner, and driven by a chain from the main truck-wheel; and, in order to keep the seed in a position to be always caught by the teeth of the wheel, it is placed in a box on top of the frame, through the bottom of which box the teeth of the wheel protrude in the inside about the length of the teeth, and in this box is placed a roller filled with long flat teeth, placed in such a position in the roller as to operate similar to a right-and-left screw, keeping the seed at all times close against the teeth of the wheel, as the box becomes empty, in order that it may be caught and drawn down by the teeth as the wheel revolves, the roller in the seed-box being driven by chain or other similar gearing from the main wheel of the truck.

Having thus fully described my invention, a more complete understanding of which may be had by reference to the drawing, figure 1 is a view of the machine complete. Fig. 2 is a top view, showing the interior of the seed-box.

A is the frame of the truck, which is made of wood. X is the bolster and axle. W is the cross-piece that supports the studs O. B B are the main wheels of the machine. Y Y are the hubs, the inside ends of which, being set with small teeth, act as the driving-pulley

for the chain-gearing. P is the double-tree. C is the chain by which the toothed roller in the seed-box is driven. V is the chain which drives the dropping-wheel. T is the frame, which is made of wood. N is the slot-holes through the iron tips on the front end of the frame. Q is the platform. K K are the stands of the driver's seat, with catches in the sides. L is the seat. J J are levers at the sides for raising the frame in turning. D D are the plows for raising the row before dropping. E is a pioneer or cutter for opening the top of the row preparatory to dropping the seed. G is a scraper for the purpose of covering the seed when dropped. F is the dropping-wheel working in the bottom of the seed-box. V is the pulley by which it is driven. H is the seed-box. R is the toothed roller in the same. S S are the teeth, so arranged as to act as a right-and-left-hand screw. I is the pulley by which the roller is driven, being filled with small teeth to catch the chain.

Having thus fully described the drawing, what I claim as my invention, and desire to secure by Letters Patent, is—

1. The arrangement of the plows D D upon the sides of the opener E when they are provided with separate lifting-levers J, whereby the plows may be independently adjusted, all constructed, arranged, and operating as herein described.

2. The slot-holes N, the studs O, and iron rod Z, in combination with the truck-frame A, the bolster and axle X, the wheels B B, the hub-pulleys Y Y, and double-tree P, substantially as and for the purpose herein set forth.

PARKER H. ALTSTATT.

Witnesses:

E. F. HUYCK,

W. W. PULLEN.