

J. H. REYNERSON.

Wheel Cultivator.

No. 63,426.

Patented Apr. 2, 1867.

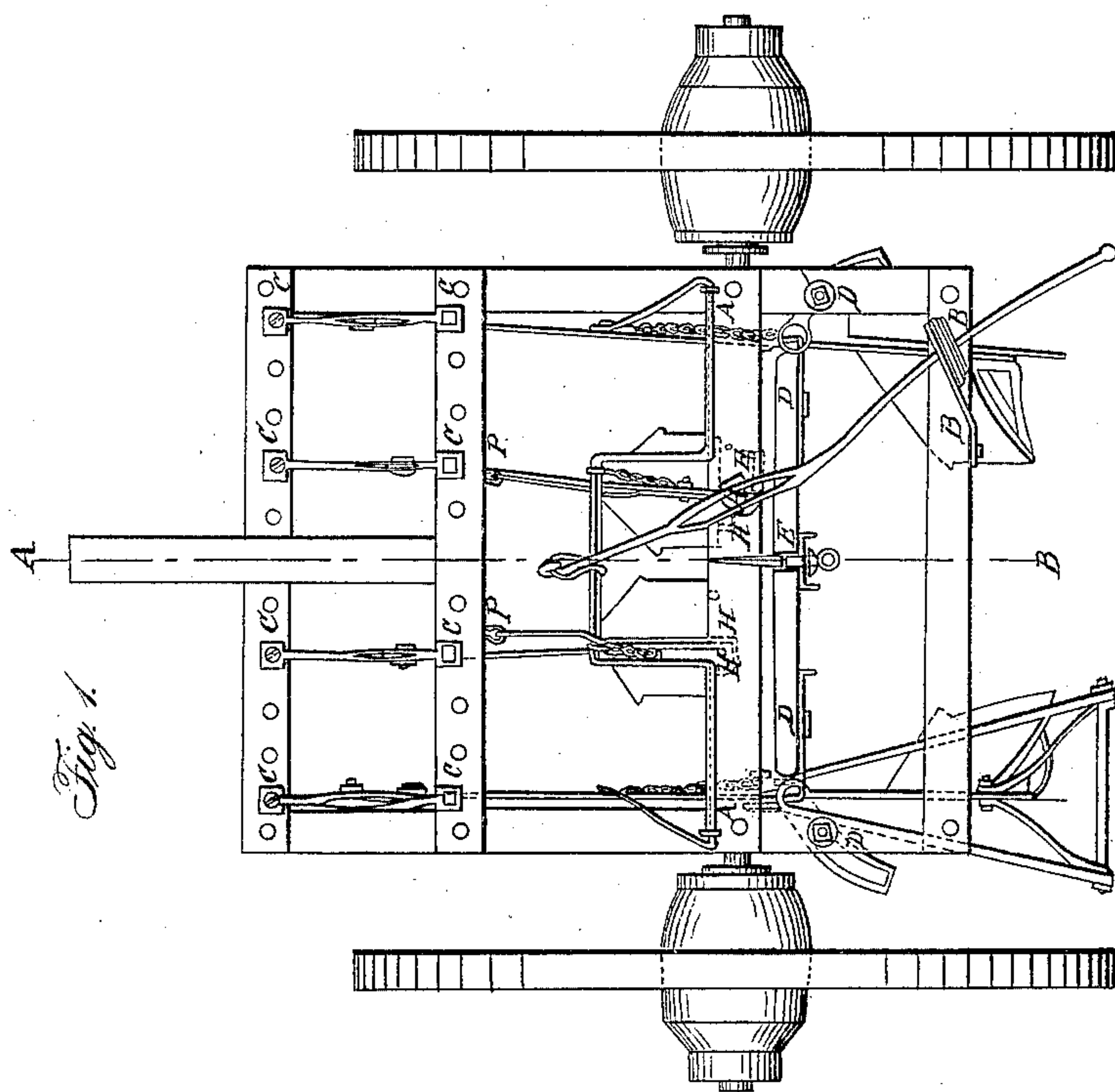
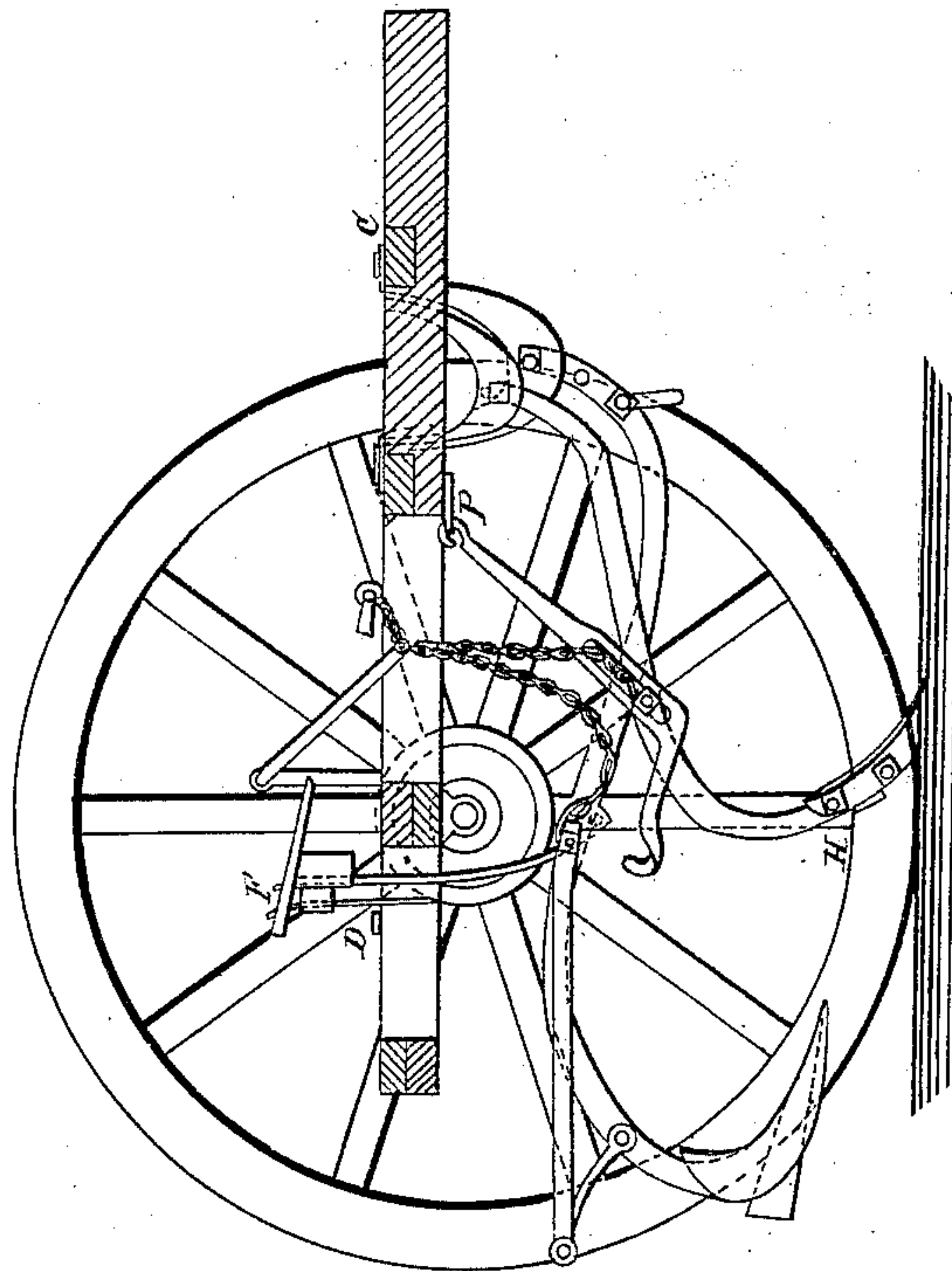


Fig. 2.
Section A B



UNITED STATES PATENT OFFICE.

JAMES H. REYNERSON, OF PLEASANT PLAIN, IOWA.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **63,426**, dated April 2, 1867.

To all whom it may concern:

Be it known that I, JAMES H. REYNERSON, of the village of Pleasant Plain, county of Decatur, and State of Iowa, have invented a new and useful Improvement on Carriage Plows or Cultivators; and I do hereby declare that the following is a full and exact description thereof, reference being had to the letters of reference marked on the accompanying drawings.

The nature of my improvement consists in a square frame of timbers, with two inside cross-beams, (one of which is an axle-tree,) with two wheels and a tongue, upon and underneath which are attached four plows or cultivators, with their iron beams, in such a manner as to be raised or lowered at pleasure; also, may be moved closer together or separated farther apart, as may be desired; may also be shifted from right to left, and from left to right, and thus cause the dirt to be thrown either in or out; may be used collectively, as riding or carriage plow, or may be used as single plows by detaching them from the other works, and attaching to them handles and clevises; may also be used for breaking plows, by detaching two of the plows and beams, and placing the others near to each other, with either right or left hand molds; may be used with either shovels or turning-molds to any or all of the beams; can be set to run deep or shallow by raising or lowering the front end of the plow-beams.

I raise and lower the plows by means of a lever bolted to the top of an iron post, which is set in the axle-tree to the right of the center of the axle. The lever extends forward and backward from the post. At the forward end of the lever are two or three links, by which it is fastened to an angular rod of iron extending across the frame or wood-work, and supported on both sides of the machine by two iron posts, through which it runs and plays, the iron posts being set in the outside timbers, (see A A A.) The rear end of the lever is guided and kept in any desired position by a notched rod of iron, bolted onto the right-hand rear corner of the wood-work, and is kept from swaying out of its proper place by an extension of the notched rod over to the left and down to the hindmost cross-timber, and bolted fast to it, (see B B.)

I move the plows and beams near to each

other, or separate them farther apart, by shifting the curved slit bars of iron and the bolts on the two front timbers with holes, (see C C C C C C C;) also, by the use of two upright rods of iron, with slots in the upper ends, and bent inward, and bolted at the upper end to a movable cross-timber, and at the lower end to the plow-beams, said rods passing down through a hole in the end of a curved slotted bar of iron, on each side of the wood-work or frame and underneath it. Said rods and bars slide inward or outward by means of the slots in them, (see D D D D.)

I gage the depth of the two outside plows by means of two rods extending upward from the plow-beams and bolting onto the movable cross-timber, and hold them to any desired depth by passing an iron pin through an upright bar of iron bolted on the center and underneath the axle-tree, and through a slide on the movable timber, which plays over and forward of the upright bar, (see E.)

I attach either turning or shovel plows to the plow-beams by means of blocks of wood underneath and back of the shovels, (see H H H H.)

I use any or all of the beams and plows as single one-horse plows by detaching them from the frame and attaching to them a pair of handles. The two inside plows are governed by two foot-levers attached to the plow-beams, and extending forward and upward to a cross-timber, to which they are fastened by iron eyes and bolts, (see P P.)

What I claim in my invention as original, and desire to secure by Letters Patent, is—

1. The manner of shifting the plows and beams either in or out by means of the slotted rods and curved slotted bars of iron at D D D D, and the upright bar with holes, together with the movable cross-timber and slide at E; also, the manner of fastening the shovels to the beams by means of blocks of wood at H H H H.

2. As an improvement, the general construction and combination of the machine, aside from the wheels, axle, and tongue. For this I desire to obtain Letters Patent, according to the foregoing specification.

JAMES H. REYNERSON.

Witnesses:

J. E. PAINTER,
ELISHA HORN.