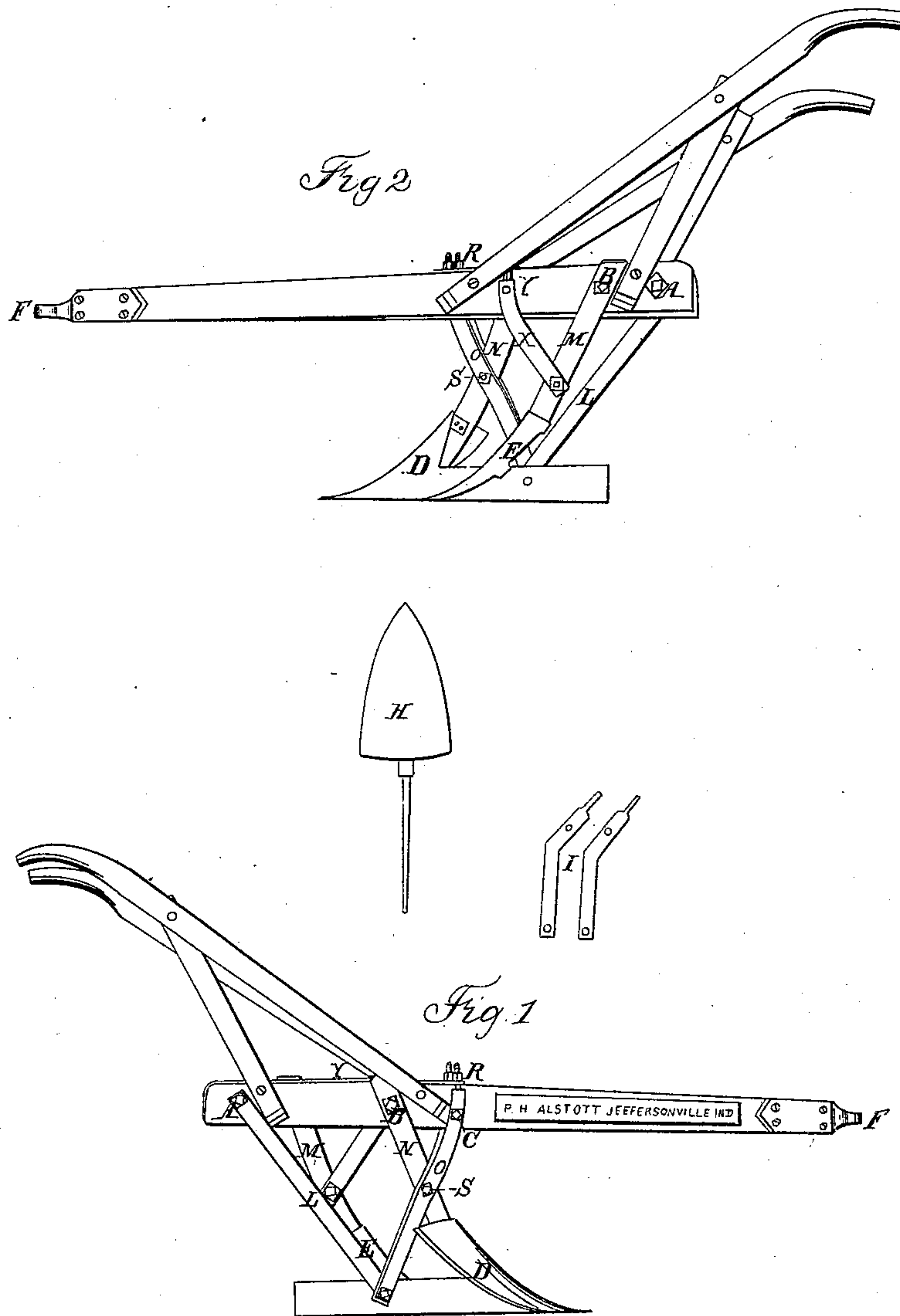


P. H. ALLSTOTT.

Cultivator.

No. 48,783.

Patented July 18, 1865.



Witnesses:  
Thos M Gibson  
J C Steward

Inventor.  
Parker H Allstott

# UNITED STATES PATENT OFFICE.

PARKER H. ALLSTOTT, OF CLARKE COUNTY, INDIANA.

## IMPROVED CULTIVATOR.

Specification forming part of Letters Patent No. 48,783, dated July 18, 1865.

*To all whom it may concern:*

Be it known that I, PARKER H. ALLSTOTT, of the county of Clarke, and State of Indiana, have invented a new and Improved Corn-Tiller; and I do hereby declare the following to be a full and exact description of my invention, reference being had to the accompanying drawings, of which—

No. 1 is a perspective view from the right-hand side, and No. 2 from the left-hand side of the tiller.

The nature and object of my invention consists in providing a means by which the beams of the tiller may be elevated or lowered within certain limits and secured at any desired elevation, thus changing the angle between the beams and shares, and accommodating the draft of the tiller to the height of the animal drawing the same without the necessity of any change in the harness of the animal, and also at the same time regulating the depth at which the tiller will take hold upon the earth and making deep or shallow plowing, as may be desired.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction, operation, and mode of using the same.

The tiller is constructed with the beams in the same horizontal plane. At the end F, Nos. 1 and 2, said beams are separated from each other by a blunt wedge of wood about one inch in thickness at its forward and smallest end, and about eight inches in length, its vertical measurement corresponding with the vertical measurement of the beams. The two beams with the intervening wedge are fastened firmly together with a permanent iron clevis, an extension forward of which forms a horizontal semicircle, to be used for attaching the harness of the draft-animal to the tiller. From the point F, Nos. 1 and 2, the beams of the tiller diverge in the same horizontal plane at an angle of about six to eight degrees, and are permanently joined together at A, Nos. 1 and 2, by a cross-beam of wood and also by an iron rod in front of the cross-beam, having a squared head at A, No. 2, and a tap-screw movable head at A, No. 1.

The shares of the tiller of two shovels and one turning-share, only two of which are to be used at one time. The tiller may be used in

the shape in which it appears in the drawings, with the turning-share and one shovel attached, or the turning-share may be removed and the shovel H, No. 1, be substituted by means of the brace I, No. 1, it being the intention that the two shovels shall be used in the earlier stages of cultivation, and the shovel and turning-share when the corn is more advanced.

The shares are attached to the beams by means of the iron rods M and N, No. 1, O and X, No. 2, and the brace L, No. 1, the rods O and X, No. 2, and M and N, No. 1, being double rods passing on each side of the beam to which they are attached. Through the brace L, No. 1, at A, No. 1, is a longitudinal hole or opening to receive the iron rod which traverses the beams at that point. This hole is about one inch or more in length, its longest diameter being parallel with the direction of the brace L, so as to allow the brace L, No. 1, to slide up and down to the extent of an inch or more when the tap-screw at A, No. 1, is loosened, and to be fixed permanently when the tap-screw at A, No. 1, is tightened. The upper ends of the double iron rods O, No. 1, pass on each side of the right-hand beam and project above the beam and have each a male screw from two to three inches in length upon the projecting end at R, Nos. 1 and 2, upon which male screws there are fitted female tap-screws to be used as hereinafter indicated. The double rods X, No. 2, in like manner pass on opposite sides of the left-hand beam, having each on the upper end thereof a male screw projecting above the beam fitted with female screw-taps, to be used as hereinafter indicated. An iron bar is attached by a hinge to the left-hand beam at R, No. 2, and shuts down over the two male screws, having two holes to receive the ends and allow the male screws to project above said bar, and is secured in its place by the two female tap-screws. In like manner an iron bar is attached by a hinge to the right-hand beam of the tiller opposite the upper end of the iron rod N, No. 1, at a point hidden from view in the drawings by the handles of the tiller. This bar shuts down on the double rods X, No. 2, having in it two holes to receive the male screws of the double rod X, No. 2, which male screws will project above said hinged bar, and be secured in its place by the female tap-screws



at Y, No. 1. Attached to the double rod O, No. 1, on the inside thereof at S, No. 1, is an iron rod or flat bar, (not shown in the drawings,) which extends across and upward to the inner rod of the double rod X, No. 2, and is attached to it by the inner end of the bolt Y, No. 2. The use of this last-mentioned rod or bar is to give strength to the tiller and to secure uniformity in the changes (hereinafter indicated) of the angle between the shares and the beam.

The changes in the draft of the tiller are effected by changing the angle of the shares to the beam in this manner: By loosening the tap-screw at A, No. 1, and the tap-screws at R, No. 1, and Y, No. 1, the whole tiller will be found to work as upon a hinge, so that the angle between the share and beams may be increased or diminished to the extent of from two to three degrees. To permit this movement the right-hand beam at C, No. 1, has the hole through which the bolt C, No. 1, passes, cut longitudinally its greatest length, being vertical or at right angles to the beam, the greatest length being from an inch to an inch and a quarter, and thus permitting the double rods O, No. 1, to slide up and down at right angles to the beam to the extent of about an inch, so long as the screw-taps above indicated are loosened. In like manner the left-

hand beam is so pierced with a longitudinal hole as to permit the bolt Y, No. 2, to play up and down the beam in the hole it traverses, and thus permit the double rods X, No. 2, to slide up and down nearly at right angles with the direction of the beam, to the extent of an inch or more, so long as the taps are loose. When the shares are adjusted at the desired angle to the beam the screw-taps at R, A, and Y, No. 1, are to be tightened, and the angle, as adjusted, will remain permanent.

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

The relative arrangement of the shares and beam, and the construction and arrangement of the connecting rods, bars, bolts, and screws and taps, so far as they assist in effecting the purpose and object of changing at will the angle between the shares and beams, and thereby altering the draft of the tiller.

I disclaim any claim of novelty for the share or shovels, or any other portion of the tiller not contributing directly to the purpose of effecting at will the above indicated change of angle and fixing the same when so made.

PARKER H. ALLSTOTT.

Witnesses:

THOS. W. GIBSON,  
J. C. STUARD.