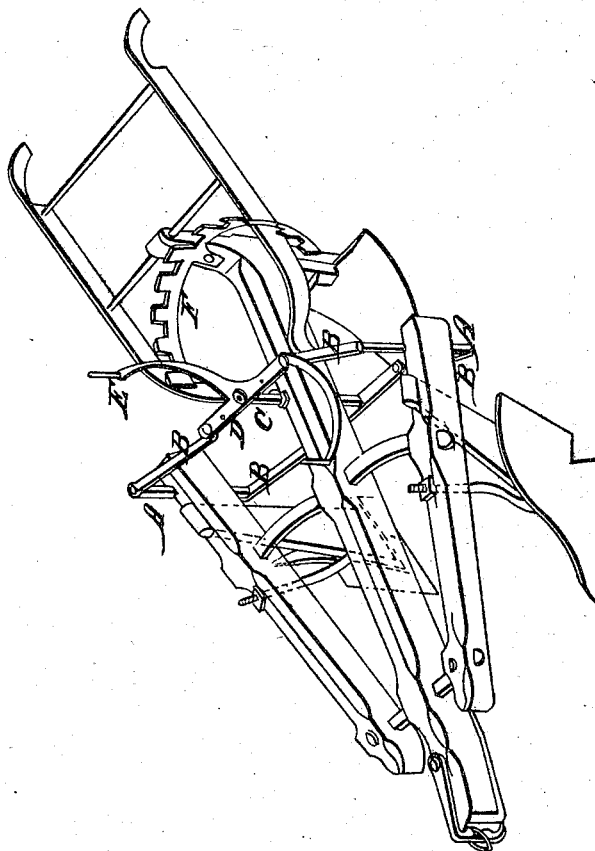


R. NELSON.  
CULTIVATOR.

No. 3,406.

Patented Jan. 15, 1844.



# UNITED STATES PATENT OFFICE.

ROBERT NELSON, OF WEST POINT, INDIANA.

## IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 3,406, dated January 15, 1844.

*To all whom it may concern:*

Be it known that I, ROBERT NELSON, of West Point, in the county of Tippecanoe and State of Indiana, have invented a new and useful Improvement on the Double or Three Shovel Plow, of which the following is a specification.

The nature of my invention consists in providing a mode of regulating and setting the plows aforesaid by means of jointed bars, connecting each outside beam with the center beam, so as to contract or expand the two former at pleasure, and to set and retain the plow in any position within half a circle by a lever which runs from said bars and falls into notches in a circular iron comb attached to the handles of said plows.

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

My plow is formed of the same material and in any of the known forms of double or three shovel plows, consisting of center and outside beams, attached near the clevis by an iron bar and about two feet back by another iron bar of suitable dimensions, which is fastened through the center beam, but let loosely into the outside beams, so that they can be drawn up or extend on it, as required.

For the purpose of contracting or expanding the set of the plow, three inches from the back part of each outside beam I insert perpendicularly an iron rod, A A, ten inches long and three-fourths of an inch thick, with small journals at top and bottom of each bar, to which are attached four other bars, B B B B, of the same length and thickness, two above and two below, (let on with eyes and screwed down,)

each bar running inward at right angles to the center beam. Through the center beam of said plow and in line with the bars last mentioned I insert a third revolving bar, c, one inch thick and seven inches long; secured at top and bottom of said beam with screws or washers, so as to prevent play perpendicularly, and on journals on the top and bottom of said center bar I place and screw down a flat bar, D, one and a quarter inch wide and one-quarter of an inch thick, (so placed as to leave an equal distance on each side of the center bar aforesaid above and below,) and to the ends of this flat bar, I unite with loose screws the four bars running inward, as before described, from the outside beam, (the said flat bars containing two or more holes, as may be needed, so as to make the point of connection nearer or more remote,) thus giving a narrow or wide set to the plow.

To the center of the upper flat bar mentioned I attach a lever, E, by which I can set the plow at any point required in half a circle by slipping said lever into notches into an iron comb, F, attached to the handle of the plow.

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

The manner in which I have combined and arranged the bars B B B B and lever E, so as to effect the contraction and expansion of the cultivator, and in combination with the above the iron comb F.

In testimony whereof I have hereunto set my hand this 8th day of April, 1843.

ROBERT NELSON.

In presence of—

H. W. ELLSWORTH,  
M. H. WINTON.