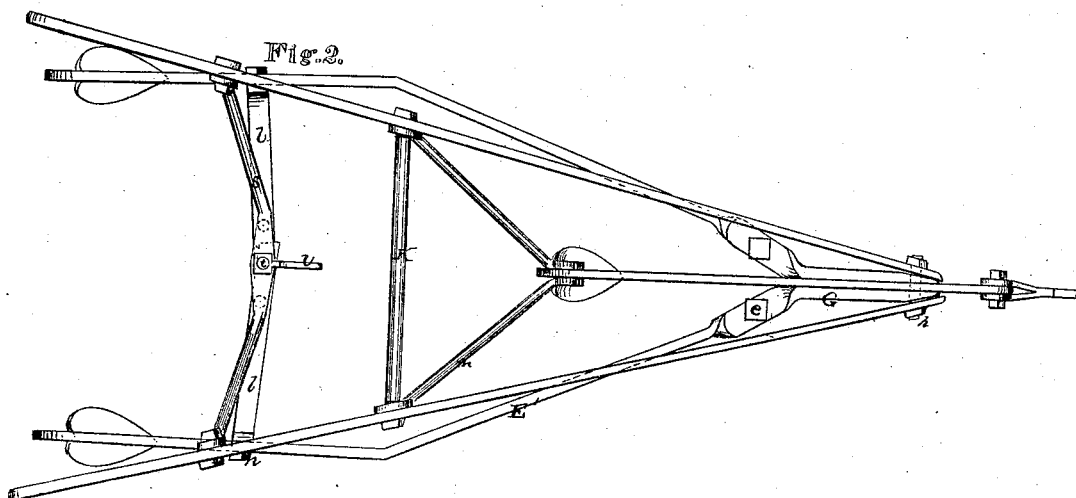
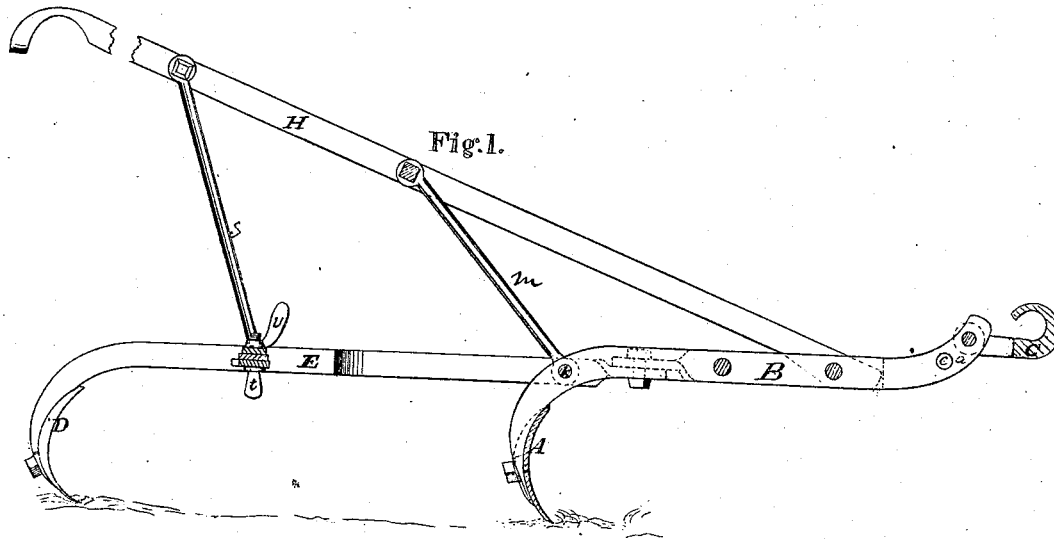


C. L. WHAITE.

Cultivator.

No. 107,142.

Patented Sept. 6, 1870.



Witnesses.  
Wm. Anderson  
Chas. Henry.

Inventor.  
C. L. Waite,  
Chipman Hasmer & Co  
Attorneys.

# UNITED STATES PATENT OFFICE.

CHARLES L. WHAITE, OF WAVERLY, PENNSYLVANIA.

## IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **107,142**, dated September 6, 1870.

*To all whom it may concern:*

Be it known that I, C. L. WHAITE, of Waverly, in the county of Luzerne, and State of Pennsylvania, have invented a new and valuable Improvement in Plows; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a central vertical longitudinal section of my invention. Fig. 2 is a top view of the same.

My invention relates to combined single and treble plow cultivators; and it consists, chiefly, in the mode of construction thereof, whereby all the parts may be readily formed of wrought-iron—an object especially to be desired, whether the superior tenacity of the material be considered or the convenience to farmers living at a remote distance from foundries.

The letter A of the drawings represents the central plow, which is sometimes used separately. It is secured to the end of the central plow-beam, B, of wrought bar-iron, bent downward with a free curve to give the necessary inclination to the plow-share. The forward end of the bar is curved upward at *a*, and perforated with a series of holes, *c c*, for the knuckle-pin of the clevis C.

D D represent the side plows, attached to the curved ends of the beams E, which are also wrought of bar-iron. The beam E is formed in two parts, jointed together in such a manner as to allow of a horizontal adjustment, while vertical play is prevented. The forward part of the beam, which is secured to the central plow-beam by screw-bolts and nuts, is lettered G in the drawings, and the joint is made by twisting the adjacent ends of the sectional beams E' and G half around in such a manner

that the broad side of each bar will be brought into a horizontal position. The pivot-bolt *e* is then inserted and the joint formed.

H H represent the handles, secured firmly to the central plow-beam at *h*.

K is a brace-bar extending horizontally from one handle to the other, shouldered at each end, to secure the eyes of the brace-rods *m m*, and fastened with nuts upon the outside of the handles. The braces *m m* extend downward, and are secured to the rear part of the central beam by the bolt *k*. The handles are also connected in rear of the brace-bar K by the rod *s*, extending downward from each handle and flattened at its center, to receive the thumb-screw *t* and thumb-nut *v*, whereby the adjustment of the perforated bars *l l*, and consequently of the side plows toward or from each other, is accomplished. These perforated bars are secured to the beams E by means of nuts *n*, a suitable screw being formed on the end of each bar.

I do not claim, broadly, a combined single and treble cultivator, whether wrought or cast; but

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

The arrangement, in a cultivator formed of wrought-iron, of the double-curved central plow-beam, B, split clevis C, braces *m*, horizontal brace K, handles H, bent brace *s*, thumb-nut *v* and screw *t*, and sectional side plow-beams, E, horizontally jointed by twisting the adjacent ends of the sections at *e*, all constructed as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHARLES L. WHAITE.

Witnesses:

G. S. NICHOLSON,  
D. CHAMBERLAIN.