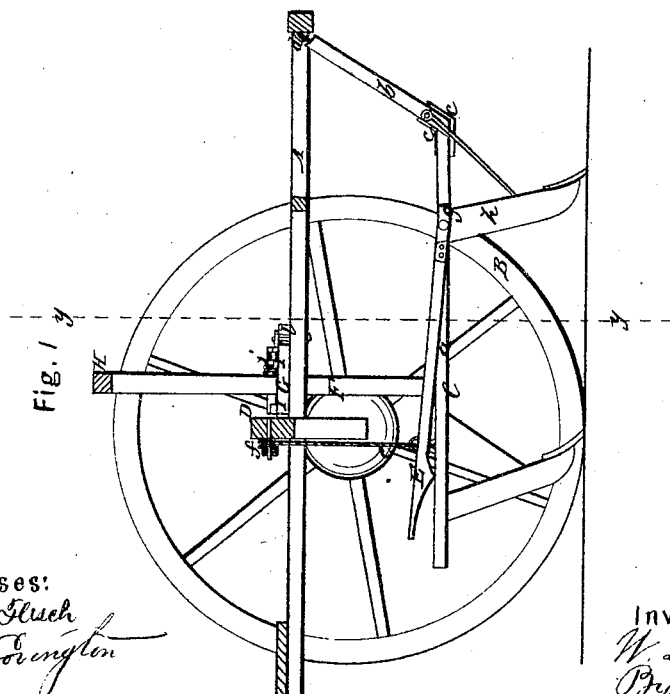
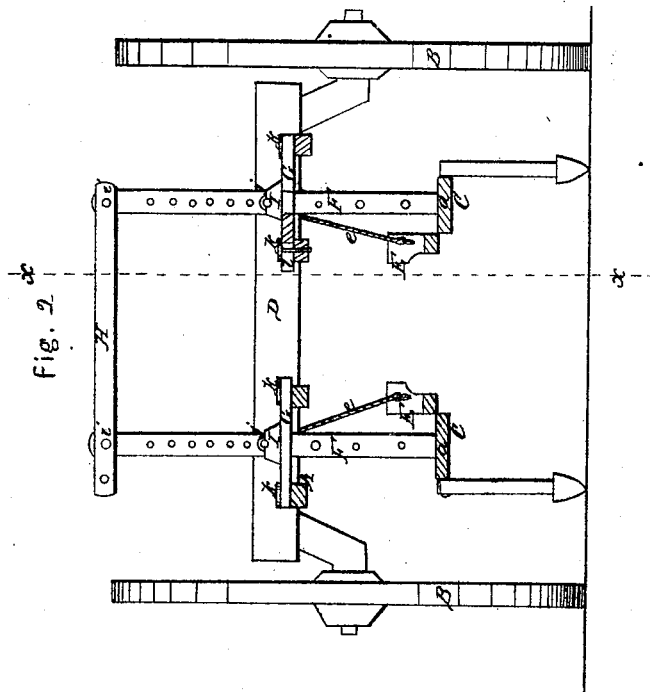


W. D. Ament

Cultivator.

No 48,884.

Patented July 25. 1865.



Witnesses:

Chas. Glueck
J. M. Corington

Inventor:

W. D. Ament
Py. Allen & Co.
W. D.

UNITED STATES PATENT OFFICE.

W. D. AMENT, OF MUSCATINE, IOWA.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 48,884, dated July 25, 1865.

To all whom it may concern:

Be it known that J. W. D. AMENT, of Muscatine, in the county of Muscatine and State of Iowa, have invented a new and Improved Cultivator; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *x x*, Fig. 2; Fig. 2, a transverse vertical section of the same, taken in the line *y y*, Fig. 1.

Similar letters of reference indicate like parts.

This invention relates to an improvement in that class of cultivators which are commonly termed "riding-cultivators;" and it consists in a novel construction of certain parts, whereby several advantages are obtained, which will be hereinafter set forth.

A represents the frame of the cultivator, which is of rectangular form, and mounted on two wheels, B B.

C C represent the plow-beams, the rear parts, *a*, of which have about a horizontal position, and the front parts, *b*, an inclined position, as shown clearly in Fig. 1. The parts *b* are secured to the parts *a* by two ratchet-plates, *c c*, bent so as to form elbows, and secured one to the upper and the other to the lower surfaces of the parts *a b* at their junction, as shown clearly in Fig. 1. The upper ends of the inclined parts *b* are secured to the front part of the frame A by staple or universal joints *d*, and the rear ends of the parts *a* have chains *e* attached to them, which pass over pulleys *f* at the rear side of the axle D and are connected to treadles E E, the front ends of which are

secured by joints *g* to the upper ends of the front plow-standards, *h*. By means of these treadles the plows are raised out of the ground when required.

The part *a* of each plow-beam has an upright bar, F, secured to it, said bars passing up through slots in plates G G on the frame A, and connected at their upper ends by a cross-bar, H, which is fitted loosely on tenons at the upper ends of the bars F F, and secured thereto by pivots *i*. The upright bars F F are perforated with a series of holes, through which rods *j* pass, and these rods are fitted in metal bearings I, which are attached to plates G G. These plates G G are attached to the frame A by bolts *k*, which pass through slots *l* in the plates in the frame A, and admit of said plates being adjusted laterally in order to vary the width between the plows as may be desired.

By having the plow-beams C C constructed of two parts connected together and to the frame A, as shown, the plow-beams may be moved laterally and kept parallel with each other, causing a true and equal movement of all the plows, and the plow-beams are subjected to a direct draft from the equalizer or draft attachment. By having the rods or bearings *j* fitted in metal bearings I the plow-beams are made to swing with a steady and true motion.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The adjustable metallic plate G, formed or cast in one piece with the bearings I, substantially as described.

W. D. AMENT.

Witnesses:

T. P. McMURY,
J. T. AMENT.