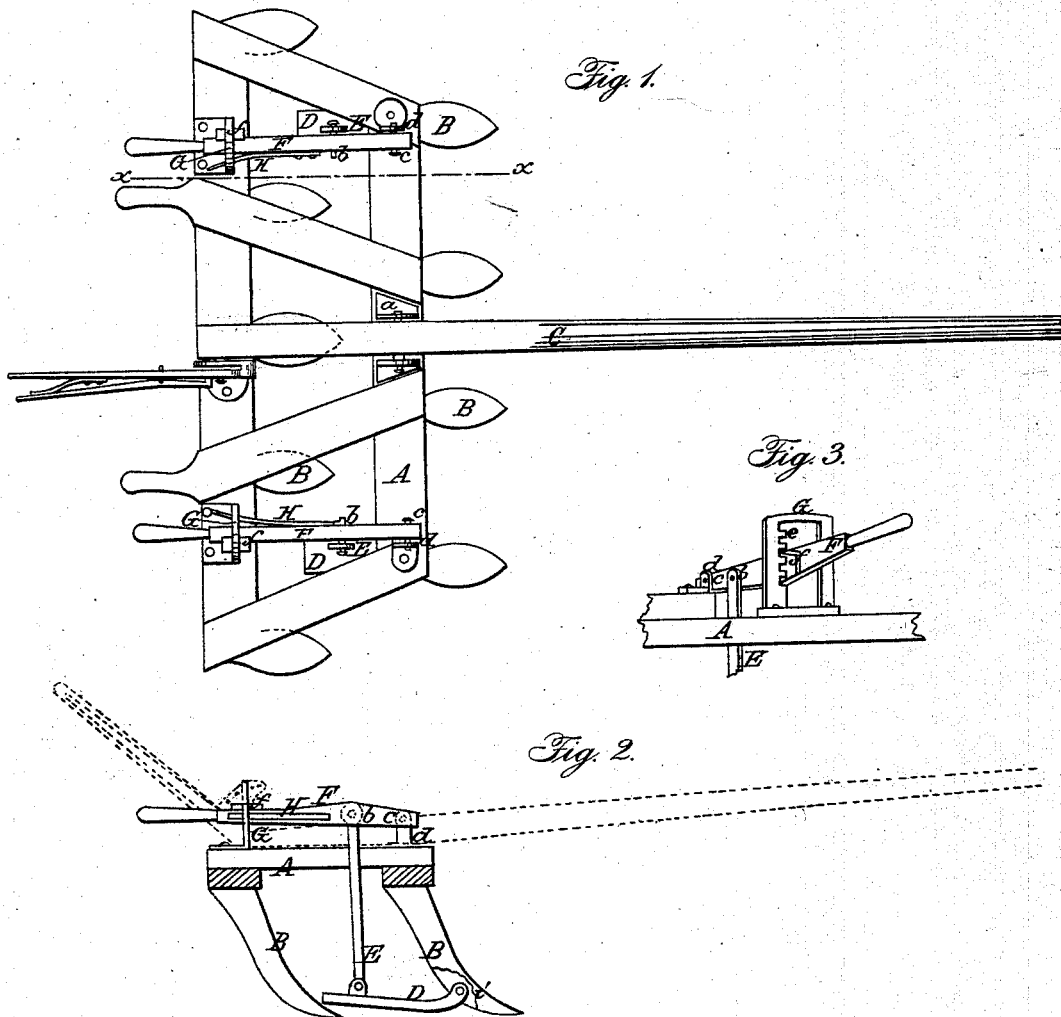


P. S. CARHART.

Cultivator.

No. 47,618.

Patented May 9, 1865.



Witnesses:

W. H. Hearn
E. L. Topliff

Inventor.

P. S. Carhart
By Munn & Co
Atty

UNITED STATES PATENT OFFICE.

PETER S. CARHART, OF COLLAMER, NEW YORK.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 47,618, dated May 9, 1865.

To all whom it may concern:

Be it known that I, PETER S. CARHART, of Collamer, in the county of Onondaga and State of New York, 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 those 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 plan or top view of the same; Fig. 2, a side sectional view of the same; Fig. 3, a detached perspective view of a portion pertaining to the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and useful improvement on a cultivator for which Letters Patent were granted to me bearing date June 10, 1862. This patented cultivator was provided with an adjustable tongue or draft-pole, arranged in such a manner as to admit of the varying the depth of the penetration of the shares into the ground.

The object of this invention is to obtain an additional means for varying the depth of the penetration of the shares into the ground, and one which will render the device more perfect and efficient in its operation than hitherto.

A represents the frame of the machine, provided with shares B, and having a tongue or draft-pole, C, attached to it by a joint, *a*, at the center of the front part of the frame, the rear of the tongue or draft-pole extending to the rear of the frame A and arranged with a lever and a catch, so as to admit of being secured in a more or less elevated position, as may be required. This arrangement does not require a minute description, as it is substantially the same as the one applied to my cultivator previously patented and alluded to in the recital of invention.

The two side shares, B B, at the ends of the front row are each provided with a sole or plate, D, of flat form, and slightly curved upward at their front ends, where they are attached to said shares near their lower ends by a joint,

a', as shown clearly in Fig. 2. These plates D are connected near their rear ends by upright rods E, the upper ends of which are connected by pivots *b* to levers F F, the front ends of which are attached by joints *c* to short uprights *d* on the front part of the frame A. The rear parts of these levers pass through yokes G G on the rear part of the frame A, one side of these yokes being notched, as shown at *e*, to form racks to receive catches or plates *f*, attached to one side of the levers F, the opposite sides of said levers having springs H secured to them, which have a tendency to keep the plates *f* engaged with the racks *e*.

By adjusting the levers F F the soles or plates D may be raised and lowered from the joints *a* as centers and secured at any desired point within the scope of their adjustment. By this adjustment of said soles and plates the depth of the penetration of the shares into the ground may be regulated with the greatest nicety. When the soles or plates are fully depressed they are about in a horizontal position, and the shares will not penetrate into the earth, but as they are elevated in a greater or less degree they will penetrate into the earth accordingly. Thus by this simple arrangement I obtain a very perfect means for graduating the depth of the penetration of the shares, one which will augment greatly the value of the original machine, as it admits of a nicer adjustment of the shares and causes the machine to run or work steadier and with less draft than when the adjustment of the draft-pole is alone depended upon for effecting the result.

I claim as new and desire to secure by Letters Patent—

The adjustable pivoted soles or plates D, attached to two or more of the shares B of the cultivator, and arranged with levers F, or their equivalents, substantially as and for the purpose specified.

PETER S. CARHART.

Witnesses:

MICHAEL LEYDEN,
MAURICE LEYDEN.