

W. J. Arrington.

Cultivator.

117961

PATENTED AUG 15 1871

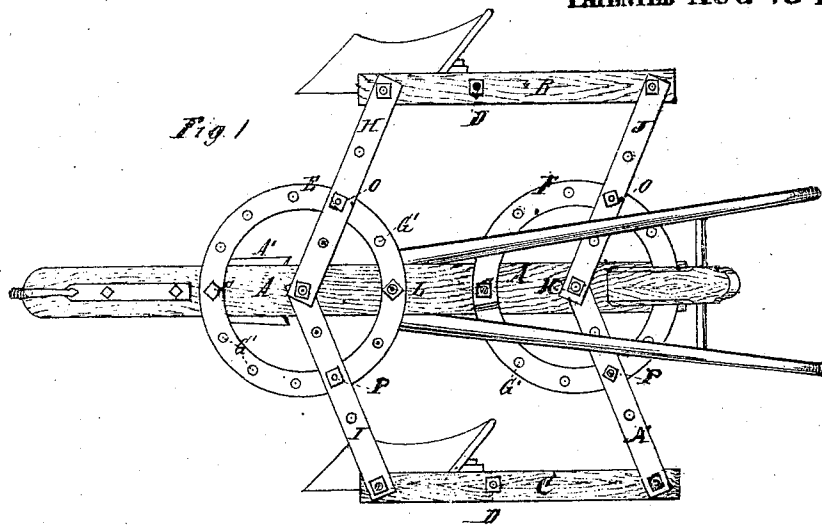
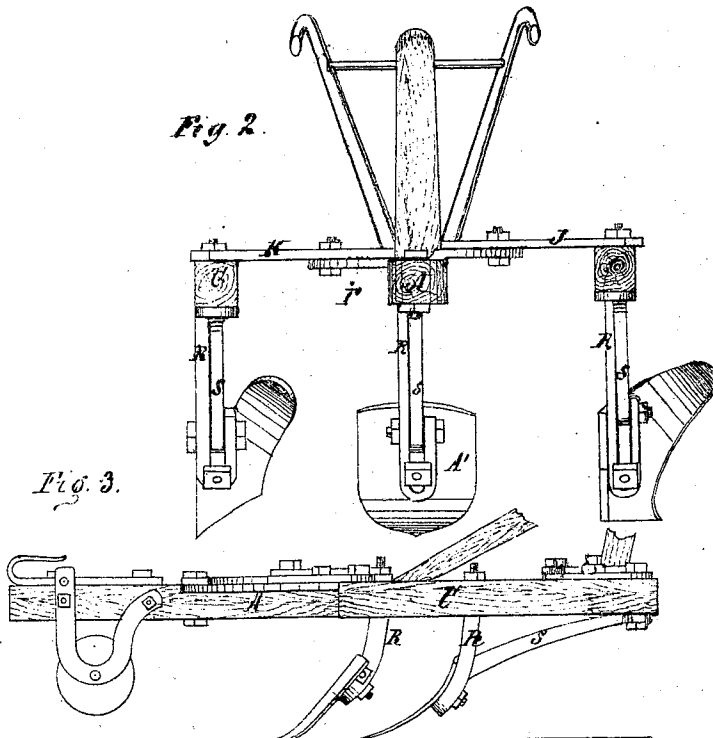


Fig. 2.

Fig. 3.



Witnesses:

H. J. Smith
Thos. D. D. Curran

Inventor:

W. J. Arrington.

PER

Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM J. ARRINGTON, OF LOUISVILLE, GEORGIA.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 117,961, dated August 15, 1871.

To all whom it may concern:

Be it known that I, WILLIAM J. ARRINGTON, of Louisville, in the county of Jefferson and State of Georgia, have invented a new and useful Improvement in Cultivators; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a plan view of my improved cultivator. Fig. 2 is a rear view of the same. Fig. 3 is a side view.

My invention is an improvement in the class of cultivators in which two adjustable side beams are employed in connection with a central beam, the three being so arranged as to be always parallel one to the other, at whatever distance they may be apart by reason of adjustment. Each side beam and its plows may be adjusted independently of the other, so as to bring them nearer the central beam or in advance or rear of the others.

A in the drawing represents the central beam, to the forward end of which the draft is applied, and having also a centrally-located plow, A'. B and C are short side beams which carry one or more shovel-standards, D, and are made horizontally adjustable in a backward and forward direction by means to be described. E F are two circular metallic plates secured to the upper surface of the central beam by bolts G and provided with holes G', as shown. H, I, J, and K are bars pivoted to the front and rear ends of the side beams and to the central beam. These bars are provided with holes which, in connection with those in the circular plates E F and bolts O P, serve to hold the side beams in any desired position. R are the standards of the plows, the lower ends of which are curved and provided with a slot which has an open upper end for the purpose of more easily inserting and withdrawing the brace-rods S and shovels, which are secured by means of bolts and nuts. Another

object of this partial slotting of the standards is to present as narrow an edge to the breaking soil as possible, and thereby prevent the clogging incident to the plows where the ordinary standards are used.

The operation of my improved cultivator is as follows, viz: When it is desired to move the side beams to any desired position, either to the front or rear, all that is required is to release the bolts which pass through the holes in the pivoted transverse bars and the circular plates, when the side beams can be moved to any position to bring their plows in a parallel line with the central plow, or to the rear and front as may be desired. To facilitate the easy operation of the pivoted transverse bars, that portion of the circular plates on which they move is bent down from the remaining portion to diminish the friction. By this construction of my cultivator I am enabled to adjust the same into any of the positions required, and thus convert it from a cultivator into a plow, or vice versa; and also by its simplicity of construction it is rendered easy of operation.

I desire to be understood as not claiming to be the first to use circular plates in connection with pivoted bars and side beams of a plow or cultivator; but

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

The circular perforated plates E and F, the two sets of pivoted perforated bars, H, I, J, and K, the side beams B C, and plows, all constructed and arranged in the manner shown and described, whereby said side beams may be adjusted simultaneously or independently of each other without changing the relation of parallelism between the plows and the central or fixed beam A, as specified.

WILLIAM J. ARRINGTON.

Witnesses:

JOHN H. PARISH,
JOHN G. JORDAN.