

# UNITED STATES PATENT OFFICE.

A. S. PERRIGO, OF SANDWICH, ILLINOIS.

## IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 95,505, dated October 5, 1869.

*To all whom it may concern:*

Be it known that I, A. S. PERRIGO, of Sandwich, in the county of De Kalb and State of Illinois, have invented an Improved Cultivator; and I do hereby declare that the following is a full 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 and letters marked thereon, making a part of this specification, in which—

Figure 1 is a perspective representation of my improved cultivator. Figs. 2, 3, 4, and 5 are parts appertaining thereto, detached from the cultivator to give a clearer view of their construction.

The nature of the present invention consists in the novel manner in which the forward ends of the beams are held to the axle, adjusted to or from each other, and adjusted to gage the depth which the shovels are to run in the ground; second, in combination with the devices for accomplishing the above, draft-rods and braces, which strengthen the frame-work and give a proper line of draft; third, the novel means used to hold the shovels to the standards; fourth, the novel construction of the adjustable rod which gages the distance which the shovels are to have from each other, as the whole is hereinafter fully specified.

A A represent the wheels, and B the elevated axle which supports the shovel-beams of the cultivator, and which have the ordinary construction used for a like purpose. To the under side of the axle B, and near its two ends, are attached depending standards K K, to which, by means of bolts L L, are pivoted clips M M, Fig. 1. These clips have a series of vertical holes, N, made through them, in order that the beams A' A' may be adjusted to or from each other. The beams are held to the clips M by means of two-part clevises Q Q, which are pivoted to the beams at a a, and so formed at their forward ends, Q' Q', as to overlap both sides of the clips M, and fasten to each of them by a single pivot-bolt, D, and which have their rear ends, T, so enlarged and slotted out as to be adjusted to a greater or less height on bolts S, put through the beams, and used to hold said clevises rigidly in place when adjusted. The nature of this arrangement is such that the rear shovels can be made to run the same depth in the ground as the forward ones, no matter what position the

latter may occupy. The forward ends of the clips M are slotted out parallel with the depending standards K K deeply enough to allow draft-rods E and brace-rods B' to fasten onto the pivot-bolt L, Fig. 1. These draft-rods are made of a single iron rod each, passing from the clips M through depending hooks D', and fastened to the iron arms J of the axle B. The opposite ends of the braces B' from the clips M fasten to the braces C' C' of the tongue G, by means of which the cultivator is very much strengthened, and the draft is fully equalized quite nearly on a line with the beams A'. The device for holding the shovel-standards V V any required distance apart consists of rods d c, Figs. 1 and 5, jointed to the top of said standards and locked together by means of a cam, e, pivoted to a clamp, f, attached to the end of rod d. This arrangement is such that the rod c may slide freely in the clamp f, or be held by said cam. The shovels U are so held to the standards V by the following devices as to be set at any required angle. Clamps Y Y are so formed as to clasp onto the standards and onto metal bars O, fastened to the backs of the shovels, as shown at Fig. 4, said clamps being held in place by bolts and nuts Z X, and the inner ends of the clamps being notched out to fit the angular shape of the said bars O.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. The two-part clevises Q, pivoted to the beams A' and to the clips M, and provided with slotted ends T, for adjusting the depth which the shovels are to run in the ground, as set forth.

2. The combination of the clevises Q, clips M, and standards K, as described.

3. The combination of the clevises Q, standards K, clips M, and rods B' E, as and for the purpose set forth.

4. The combination of the rods d c, standards V, shovels U, and cam e, for holding the shovels the required distance apart, as specified.

5. The two-part clamp Y Y, in combination with the standard V, bolt and nut Z X, angular bar O, and shovel U, for holding and adjusting said shovel, as described.

A. S. PERRIGO.

Witnesses:

H. W. KENNEY,  
N. TUCKER.

