W. E. DEWEY.

CULTIVATOR.

No. 191,660. Patented June 5, 1877.

Fig. 1.

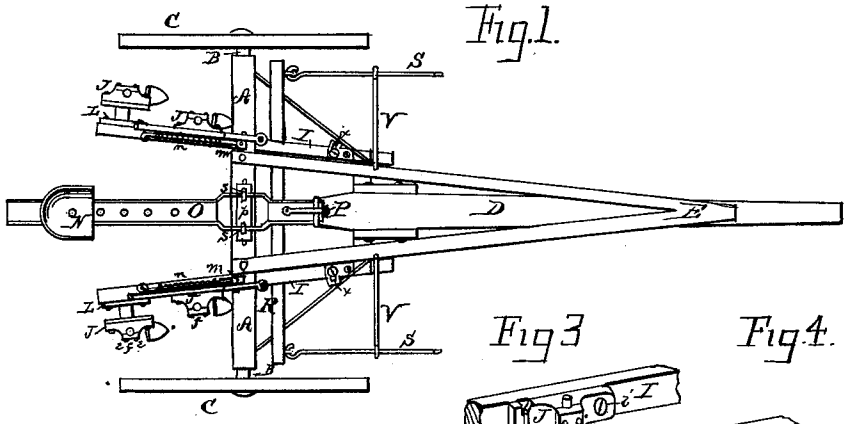


Fig 3

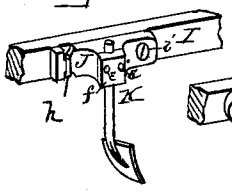


Fig 4.

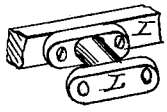


Fig 2.

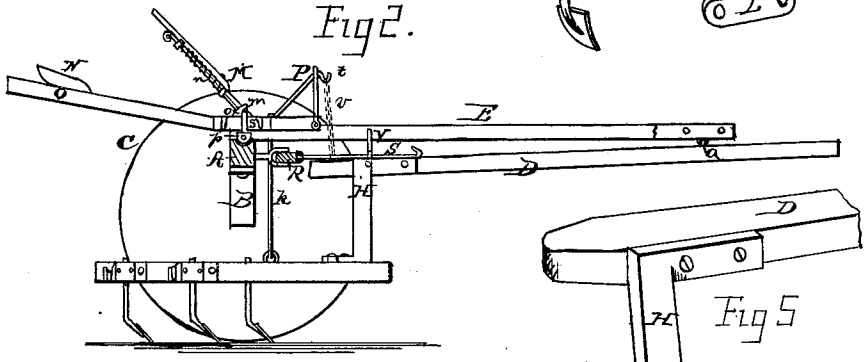


Fig 5

Witnesses

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **191,660**, dated June 5, 1877; application filed April 12, 1877.

To all whom it may concern:

Be it known that I, WILLIE E. DEWEY, of Elkhorn, in the county of Walworth and State of Wisconsin, have invented certain new and useful Improvements in Cultivators; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a sulky corn-cultivator, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view. Fig. 2 is a side elevation, partly in section; and Figs. 3, 4, and 5 are detail views of parts of my invention.

A represents the wooden axle, provided at each end with a wrought-iron spindle-arm, B, upon which the driving-wheel C is placed. D represents the tongue, and E the crotched or split tongue, the latter being firmly secured to the axle A. The front end of the split tongue E is hinged at its front end by a link, *a*, to the top of the straight tongue or pole D, about two feet back of the front end thereof. To the rear end of the pole D, on each side, are securely bolted castings or arms H, which extend along the side of the pole for a suitable distance, and are then bent downward and outward, and the extreme lower ends are bent rearward and provided with transverse slots *x*, as shown. This part of each arm H is fastened on top of the drag-bar I by means of a bolt, *b*, and another bolt, *d*, passes through the slot *x* of the arm into the drag-bar, so that the drag-bar can swing or turn on the bolt *b*, and be fastened at any angle by the bolt *d*.

J represents a cast plate, formed with a central vertical groove to receive the shovel-standard K, which is held in its place by means of a small outside plate, *f*, fastened by bolts *e e*. The plate J swings on a bolt, *i*, at its front end, while the rear end is held in position by a clamp or hook, *h*, passing through the drag-bar, and fastened by a nut on the opposite side thereof.

Where three shovels are used on each drag-bar an H-shaped casting, L, is interposed between the drag-bar and the plate J for the rear shovel.

Each drag-bar I is connected by a rod, *k*, with the front end of an adjusting-lever, M, pivoted to a standard, *m*, on the axle A. When the drag-bars rise or fall the rods *k* slide through the levers M without changing the position of said levers. Each lever M is provided with a spring-pawl, *n*, taking into a cogged or perforated segment, *o*, on the standard *m*, for holding the drag-bars and regulating the depth at which the shovels are to work.

N represents the driver's seat, adjustable upon a lifting-lever, O, which is connected to the top of the axle A by means of a hinge, *p*, said lever being attached to the hinge by means of clips *s s*. On the front end of the lever O is a three-braced standard, P, having a hook, *t*, on its upper end, and on this hook is hooked a chain, *v*, connecting the same with the rear end of the tongue D. The weight of the driver on the seat N, by means of the hinged lever O, will counterbalance the weight of the drag-bars, so that, by the driver placing his feet on said bars and pushing down, it will lower the shovels, and by taking the feet off it will raise them out of the ground.

R is the double-tree or evener, connected directly to the front of the axle A, and under the split or crotched tongue E. To each end of the evener R is attached a draft-rod, S, kept in its place by means of a stay-rod, V, as shown.

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

1. The combination of the tongue or pole D, the angular or bent castings or arms H, having transverse slots *x*, the drag-bars I, pivoting-bolts *b*, and adjusting-bolts *d*, all substantially as and for the purposes herein set forth.

2. The combination of the tongue or pole D, angular slotted arms H, pivoted adjustable drag-bars I, and the split or crotched tongue

E, secured to the axle A, and attached above the tongue D to the same by the link *a*, all substantially as and for the purposes herein set forth.

3. In combination with the tongue or pole D, carrying the drag-bars, the hinged lever O, carrying the adjustable seat N, the standard P, with hook *t*, and the connecting-chain *v*, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

W. E. DEWEY.

Witnesses:
A. L. SANBORN,
T. C. LEWIS.