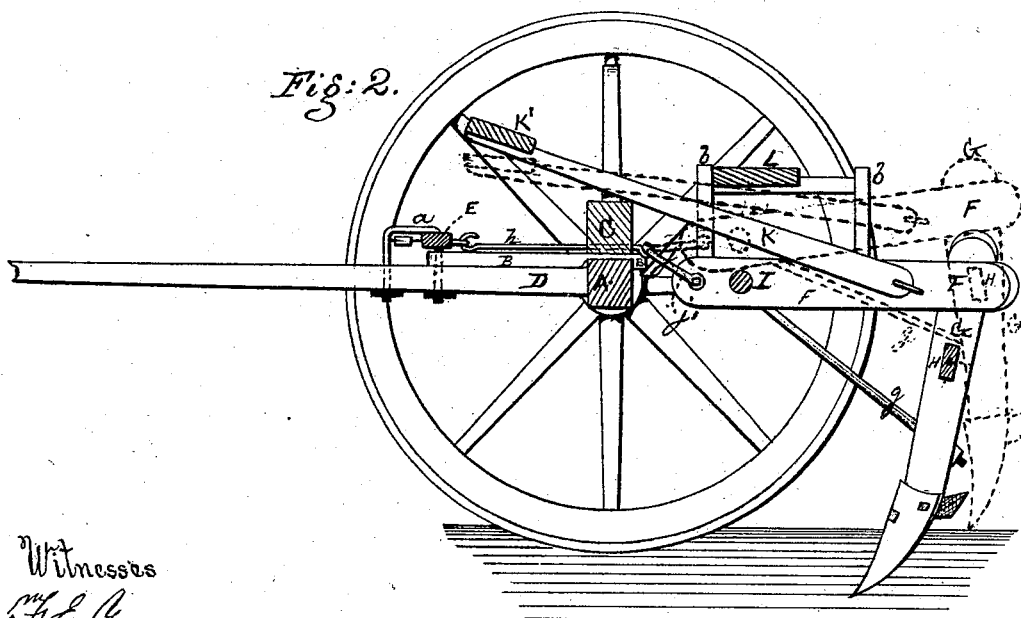
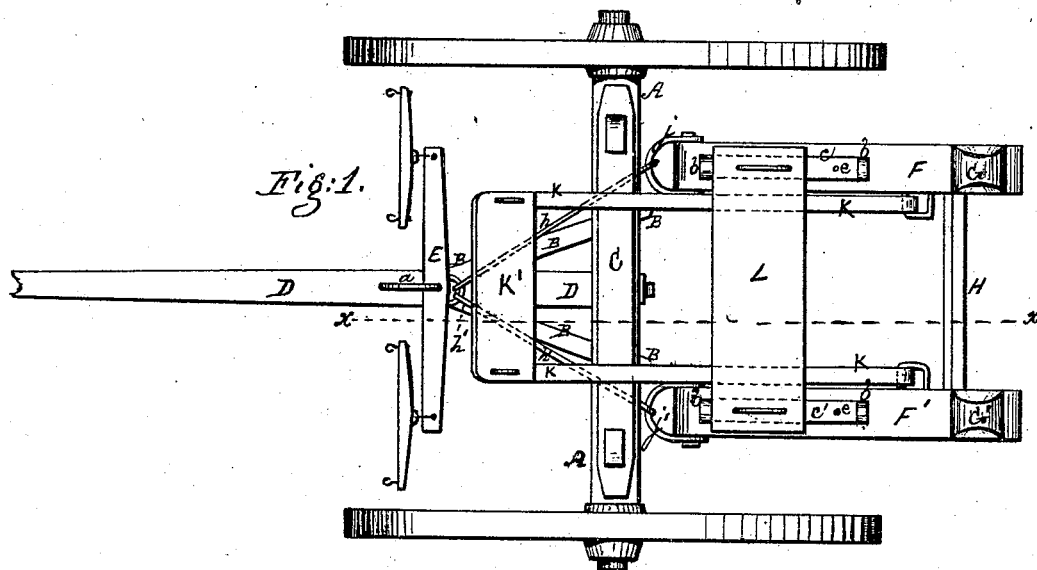


D. FULLER.
Wheel Cultivator.

No. 108,996.

Patented Nov. 8, 1870.



Witnesses
J. E. Young
L. M. Williams

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UNITED STATES PATENT OFFICE.

DAVID FULLER, OF FULLERSBURG, ILLINOIS.

IMPROVEMENT IN THE ATTACHMENT OF CULTIVATOR-FRAMES TO WAGON AXLE-TREES.

Specification forming part of Letters Patent No. **108,996**, dated November 8, 1870.

To all whom it may concern:

Be it known that I, DAVID FULLER, of Fullersburg, in the county of Du Page and State of Illinois, have invented certain new and useful Improvements in Attaching a Cultivator-Frame to the Hind Axle of a Wagon, of which the following is a specification.

My invention consists in the manner of attaching a cultivator-frame to the hind axle of an ordinary farm-wagon, in combination with a stationary frame for supporting and adjusting the driver's seat, together with the pivoted levers combined therewith, and used for elevating and depressing the cultivator teeth or shares secured to the cultivator-frame.

In the accompanying drawings, Figure 1 is a plan or top view of my improved cultivator-frame, illustrating the manner of attaching the same to the hind axle of a wagon. Fig. 2 is a central vertical section of the same, taken in line *x x*, Fig. 1, and illustrates by dotted lines the manner of elevating the cultivator-frame.

A is the hind axle of wagon; B, hounds; C, hind bolster; D, pole. The rear end of the pole may be fitted into the aperture in the axle in which the reach works, (when the front and rear axles are connected,) and bolted or otherwise firmly secured to the axle. The hounds B are secured on the upper face of the pole by means of a bolt or metal strap, *a*, which passes down through the hounds and through the double-tree E and pole D, and may be bolted or otherwise firmly secured to the lower face of the pole. The cultivator-frame consists of two beams, F F', to which are secured the stocks G G'. The beams F F' and stocks G G' are connected by means of a transverse bar, H, which, together with the braces *g* and transverse rod or bar I, form a rigid frame for supporting the driver's seat L and elevating-levers K. The driver's seat L is supported on a frame consisting of four standards, *b*, secured to beams F F', and connected by means of bars *c c'*. These bars are furnished with apertures *e*, so that the seat L may be adjusted thereon, in order to regulate the fulcrum of levers K, and to bring the driver's weight more or less over the cultivator-stocks G G'.

Loosely pivoted to the inner sides of the beams F' are two levers, K, which pass under

the driver's seat and over the bolster C, and have their forward ends connected by a transverse foot-board, K'.

Pivoted to the forward end of beams F F' is a clevis, *j j'*, to which are attached the connecting-rods *h h'*. These rods pass under the bolster, and have their forward ends hooked to the double-tree E at or near its center, as shown clearly in Fig. 1 of the drawings. Thus each and every part employed to connect the cultivator-frame with the axle of the wagon is adjustable, and consequently by their coming automatically to the required position the elevation or depression of the cultivator-frame, and teeth or shares attached thereto, is at all times under the driver's control.

The driver's seat being properly adjusted on the bars *c c'*, and the cultivator-frame secured to the whiffletrees, as hereinbefore described, the driver takes his seat at L, and when he desires to elevate the cultivator-frame he steps on the bolster C, and by placing one foot on platform K' the levers K by bearing on the bolster C and on the under side of seat L readily elevate the cultivator-frame to the position shown by dotted lines in Fig. 2 of the accompanying drawings. The driver's weight, when he is in position on seat L, serves to balance and steady the cultivator-frame, and may be thrown more or less over the cultivator-stocks G G' by the backward or forward adjustment of seat L.

The form of cultivator-frame herein described has proved well adapted to the cultivation of corn and potatoes, and its simplicity of construction is such as to enable any farmer to readily attach it to the hind axle of a wagon at a cost not exceeding an ordinary cultivator.

I claim as my invention—

The arrangement, in a cultivator, of the beams F F', pivoted levers K, foot-board K', adjustable seat L, connecting-rods *h h'*, and clevises *j j'*, constructed substantially in the manner and for the purpose hereinbefore set forth.

The foregoing specification of my improved cultivator-stock signed by me this 11th day of March, 1870.

DAVID FULLER.

In presence of—

L. H. FULLER,
JACOB BOHLANDER.