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Edwin Reese.

Cultivator.

PATENTED AUG 15 1871

Fig. 1.

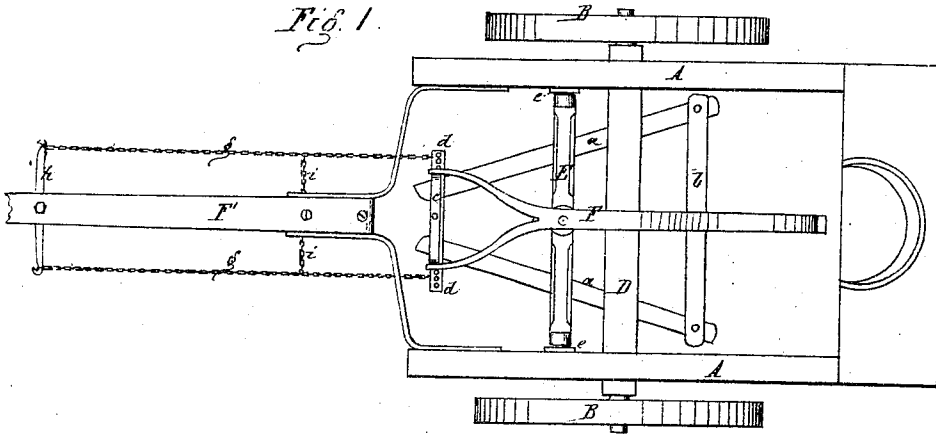


Fig. 2.

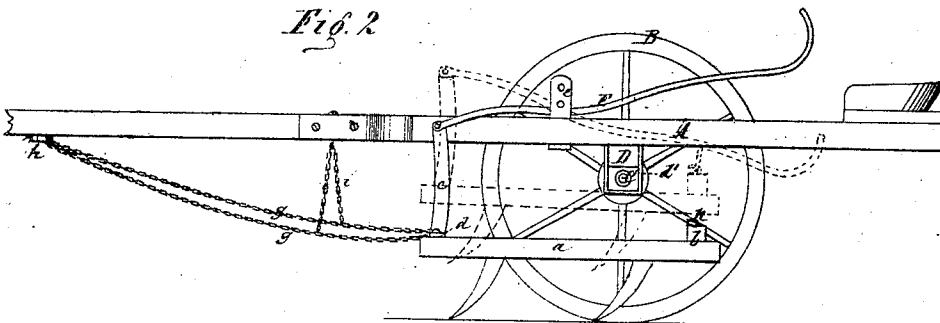
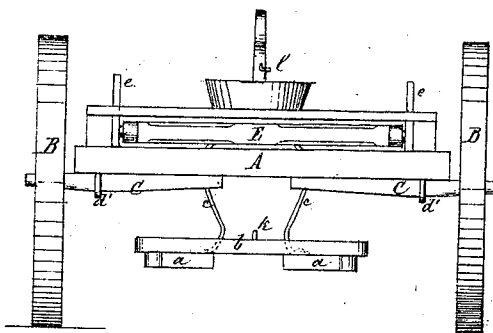


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

EDWIN REESE, OF EUTAW, ALABAMA, ASSIGNOR TO C. M. REESE, OF SAME PLACE.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 118,053, dated August 15, 1871.

To all whom it may concern:

Be it known that I, EDWIN REESE, of Eutaw, in the county of Greene and State of Alabama, 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 top view. Fig. 2 is a side elevation with one of the transporting-wheels removed, and Fig. 3 is a rear elevation.

This invention relates to a wheel-cultivator, in which the shovels are attached to a frame placed beneath the main frame; and the invention consists in the arrangement of said lower frame, rock-shaft, lever, draft-chains, and whiffletree, whereby certain advantages are secured in the operation of the cultivator. These parts or devices are hereinafter fully described in connection with others forming a complete or operative machine.

Referring to the drawing, the frame to which the shovels are attached consists of two plow-beams, *a*, connected at their rear ends by a cross-piece, *b*, and at their front ends by a metal bow, *c*, which has feet, *d*, projecting horizontally outward from each branch of the bow, to which feet the plow-beams *a* are fastened by bolts. Said feet have each a number of orifices made vertically through them, through either of which the connecting-bolt may pass, which arrangement allows the front ends of the plow-beams to be swung outward or inward so as to set them as near to or as far from the rows as desired. *A* is the main frame. The transporting-wheels *B* are mounted on short axles *C* which are secured to the cross-bar *D* of the main frame by means of staples *d* which arrangement enables the axles to be slid in or out so as to adapt them to rows that are different distances apart. *E* is a rock-shaft whose journals enter holes made through lugs *e* that project upward from the sides of the frame *A*, several such holes being made in each lug in order that the said rock-shaft may be placed higher or lower so as to suit the land or plows. A lever, *f*, is pivoted to the upper side of the shaft *E*, so as to swing horizontally. The front end of the lever *f* is fastened to the top of the bow *c*. By turning

the shaft *E* the plow-beams *a* may be raised or lowered at pleasure, and by swinging the lever *f* laterally the front ends of the plow-beams may be shifted to either side so as to cause said plow-beams to follow or not the draft-animals when the latter change direction. The front ends of the beams *a* are connected by chains *g* with the extremities of a whiffletree, *h*, that is pivoted to the lower side of the tongue *F*, which whiffletree and chains are, therefore, the devices that communicate the motion of the tongue to the plow-beams. When the team turns to one side the whiffletree *h* swings to an angle with the tongue, and consequently prevents a greater strain being brought upon one chain than the other. The chains *g* are connected by cross-chains *i* with the tongue, and the nearer to the tongue the points in the said cross-chains are at which the latter are hooked to the chains *g* the more upward is the draft of the chains *g* upon the plow-beams *a*. By taking up, therefore, or letting out the chains *i* the depth to which the plows run is regulated. By attaching the hook *k* in the cross-piece *b* to an eye, *l*, in the lever *f*, the plow-beams are held suspended clear of the ground for transportation to and fro. The bow *c* being attached to the beams *a* at some distance in front of the shovels, the operator is enabled to either swing the shovels sidewise or raise them considerably easier, by reason of the leverage, than as though the bow were attached directly above the shovels. This arrangement of the lever, draft-chains, &c., enables the frame *a* to be shifted laterally, and raised or depressed simultaneously, while the draft-tension of the chains remains the same under all the varying positions assumed by said frame.

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

The arrangement of the shovel-frame *a*, bar or bow *c*, lever *f*, rock-shaft *E*, chains *g*, and whiffletree *h* with the frame *A* and tongue *F*, as shown and described, to operate as specified.

EDWIN REESE.

Witnesses:

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