

J. LEWIS.
CULTIVATOR.

No. 105,225.

Patented July 12, 1870.

Fig. 1.

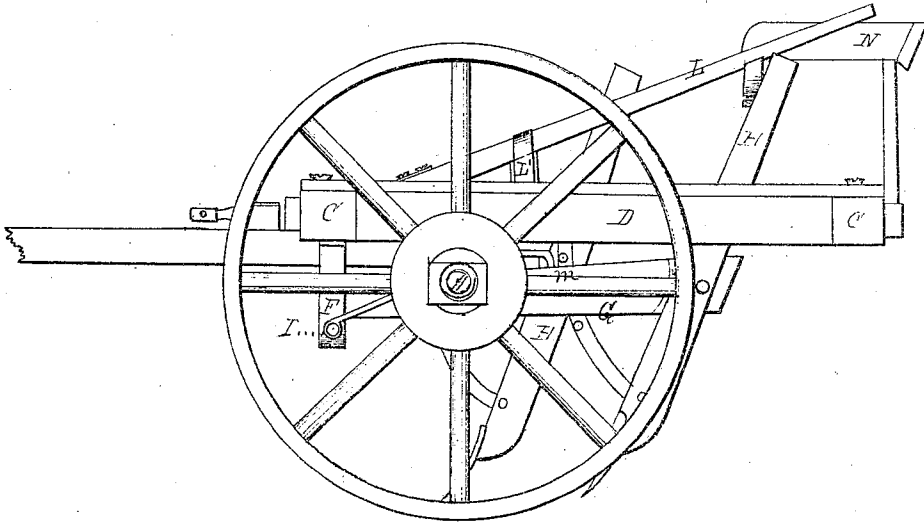
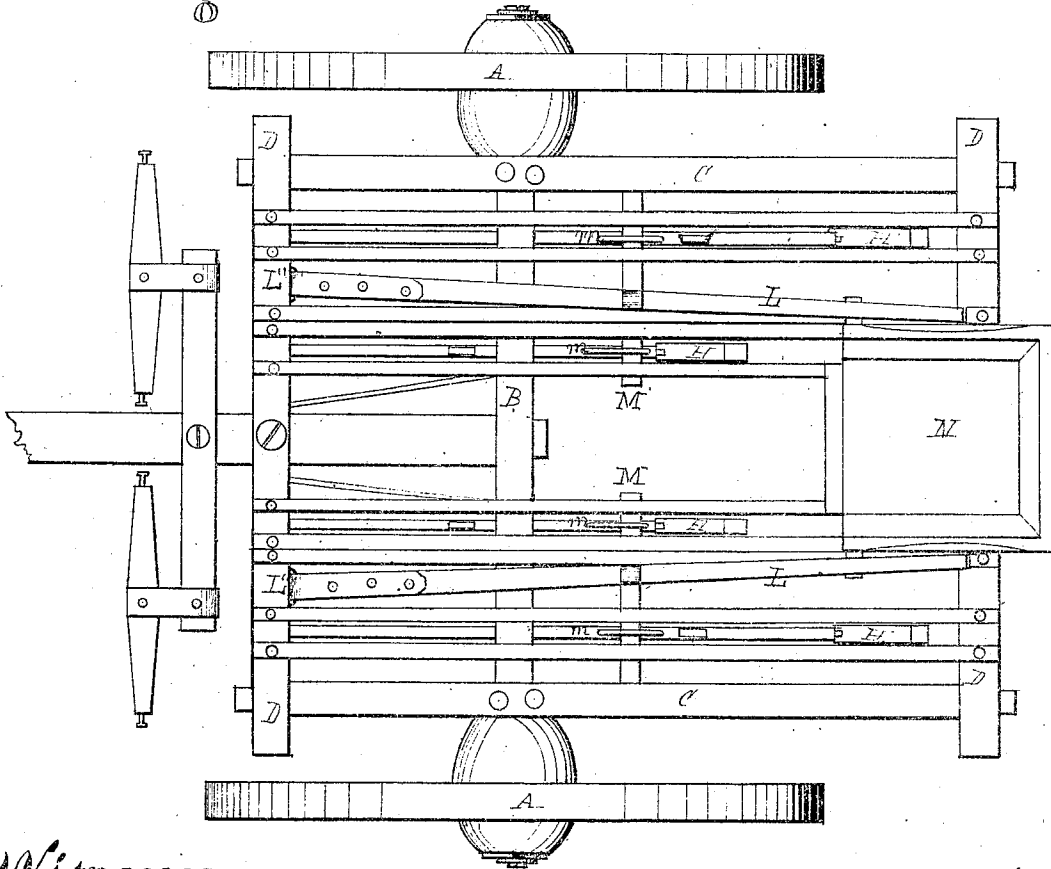


Fig. 2.



Invent.

Witnesses.

J. C. Caspary.
J. A. Lehmann

Jonathan

J. LEWIS.
CULTIVATOR.

No. 105,225.

Patented July 12, 1870.

Fig. 3.

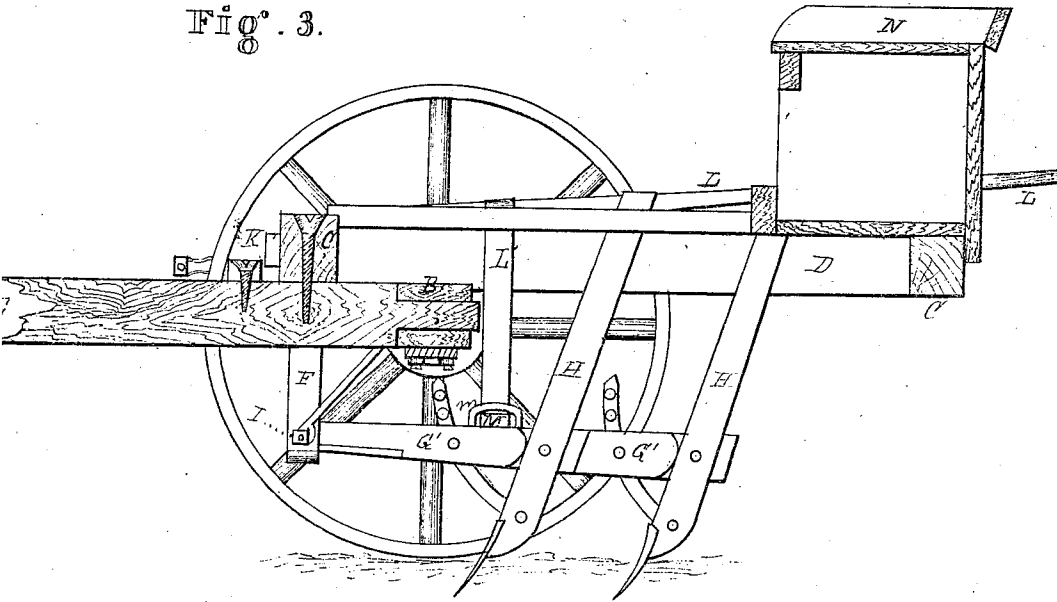
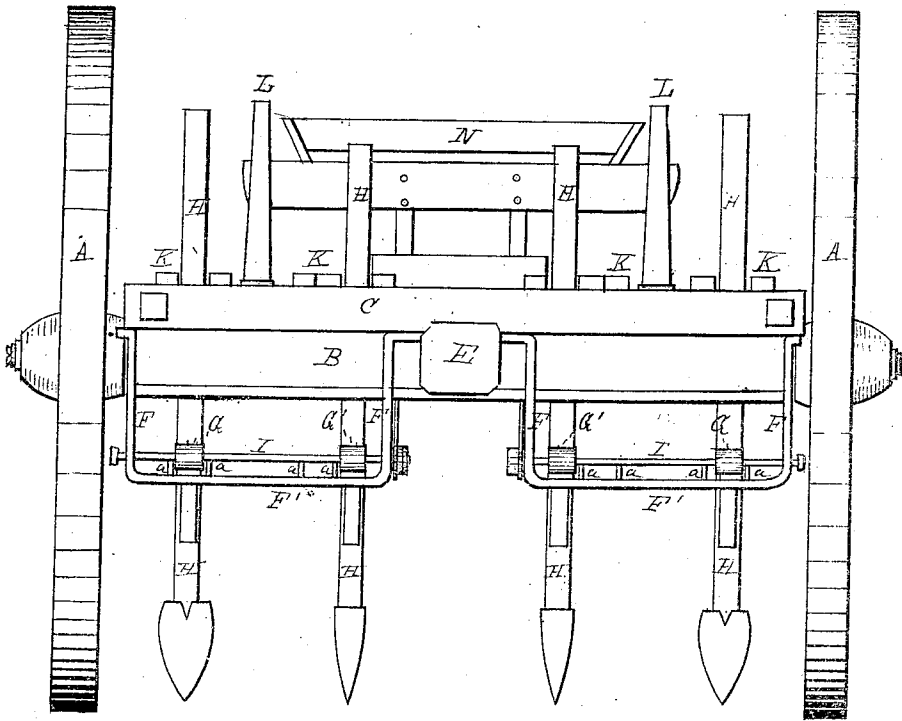


Fig. 4.



Witnesses.

B. C. Connor.
F. A. Lehmann

Inventor

Jonathan Lewis

UNITED STATES PATENT OFFICE.

JONATHAN LEWIS, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 105,225, dated July 12, 1870.

To all whom it may concern:

Be it known that I, JONATHAN LEWIS, of Washington, in the District of Columbia, have invented new and useful Improvements in Cultivators; and I do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings, and to the letters of reference thereon, making part of this specification, in which—

Figure 1 is a side view. Fig. 2 is a top view. Fig. 3 is a longitudinal vertical section; and Fig. 4 is a front view.

Like letters refer to like parts in the several views.

My invention consists in such an arrangement of parts that the machine may be used as a marker or cultivator, at pleasure, and so constructed and arranged as to be completely under the control of the operator, and to be readily changed from a marker to a straddle-row cultivator.

A represents the two wheels of the machine.

B represents the axles.

C represents the cross-piece of the frame, and D the longitudinal beams.

E represents the tongue, and F the hangers to which the plow-beams are attached.

G G' represent the plow-beams, and H the standards to which the shares are attached.

I represents an iron rod to which the forward ends of the beams G G' are attached. A horizontal bar, F', (shown in Fig. 4,) unites the hangers F, from which rise small pins *a a a*,

designed for the lateral adjustment of the beams G. This adjustment is effected by the withdrawal of the rod I and placing the beams in their desired position and returning the rod again to its place. When the machine is used simply as a marker, the inner beams, G', are left off and the outer ones, G, moved to the space outside of the pins *a*.

L represents a lever attached to each pair of plows and hinged to the forward part of the frame, as seen at L', and attached to the middle portion of the beams G G' by means of the coupling-rod L', cross-bar M, and staple *m*, by means of which the plows can be raised out of the ground or pressed into it, at the will of the operator, from his seat N.

The cultivator-teeth, standards H, and beams G G' can be adjusted at pleasure, as before described, to suit different widths of rows; or more than two on a side can be used, if desirable.

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

The construction and arrangement of the plow-standards H H, beams G G', levers L, coupling-rods L', and cross-bars M with the hangers F F', rod I, and adjusting-pins *a a*, all as and for the purpose specified.

JONATHAN LEWIS.

Witnesses:

T. C. CONNOLLY,
F. A. LEBMANN.