(No Model.)

E. R. HAM.

CULTIVATOR.

No. 278,541. Patented May 29, 1883.

Fig. 1.

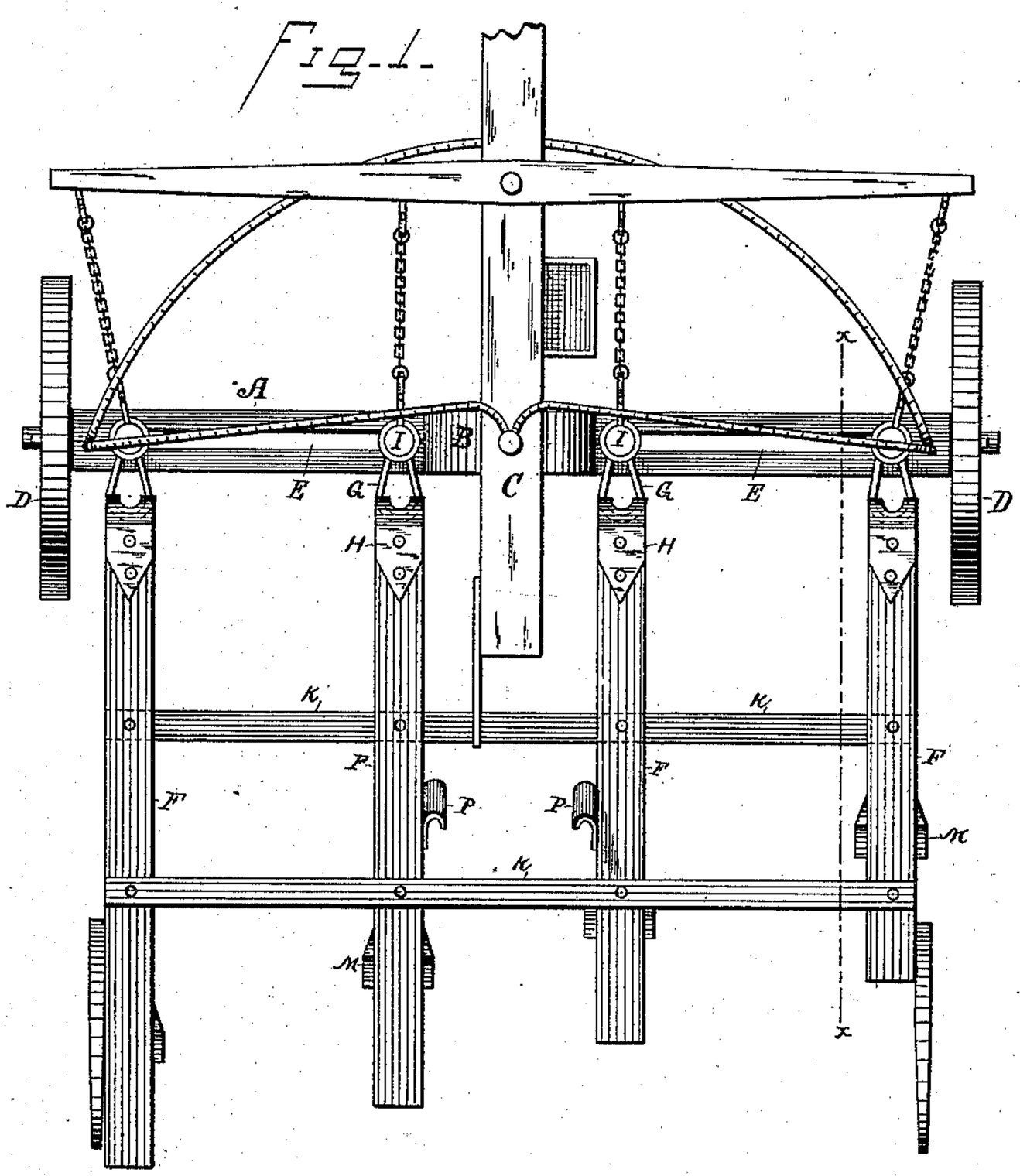


Fig. 2.

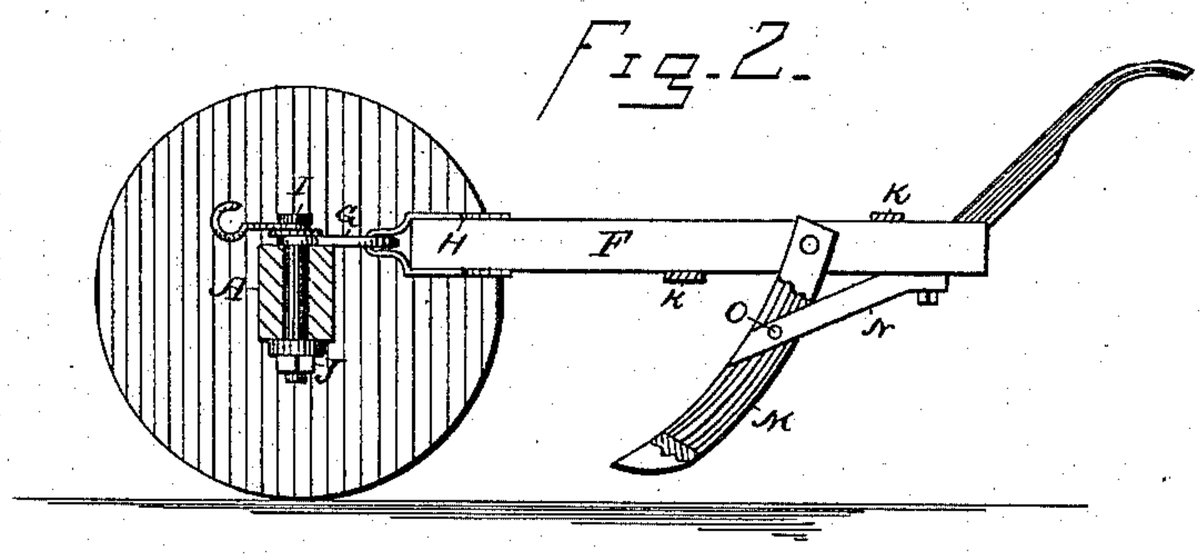
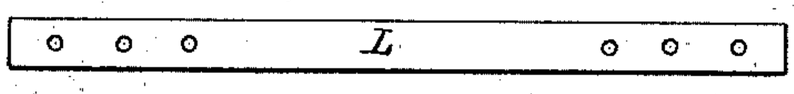


Fig. 3.



WITNESSES:

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A. G. Syne.

INVENTOR:

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

ERASMUS R. HAM, OF NEW MARKET, GEORGIA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 278,541, dated May 29, 1883.

Application filed December 2, 1882. (No model.)

To all whom it may concern:

Be it known that I, ERASMUS R. HAM, of New Market, in the county of Monroe and State of Georgia, have invented a new and useful Improvement in Cultivators, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, forming part of this specification.

This invention relates to wheeled cultivators in which a number of plow-beams are secured to the axle and arranged side by side, with flexible connections to adapt them for various movements independent of the axle and of each other; and the invention consists of the novel features of construction hereinafter described and claimed.

In the drawings, Figure 1 is a plan view, Fig. 2 is a longitudinal section, and Fig. 3 is a detail view, of my improved cultivator.

A indicates the axle, supported upon wheels D, and having a central arch, B, to which the tongue C is rigidly secured. The axle is formed with vertical slots E on each side of the arch, which are equal in length to the greatest distance between any two of the beams F. The beams F are flexibly connected to loops G by means of clips H, and the loops G are pivoted to the axle by means of bolts I and nuts J. With this construction the beams F are adapted for both a lateral and a vertical movement, which is very desirable in stumpy lands, and where the soil is wet and softer in some places than in others. The beams F are connected to each other by flexible cross-bars K, made of sheet metal. These bars are pivoted to the beams, so that by moving one of the outside plows by its handle all the beams will be moved simultaneously in the same direction. This construction is important, because both handles, owing to their distance apart, cannot be held by one man at the same time. These bars are to be removable, and short connecting-bars L are to be used when it is desired that all the plows shall not be connected together.

M indicates the standards to which the plows are to be secured. These are slotted and made to receive the beams F in the slots, and are braced by the bars N, which are secured to the under side of the beams and connected to the standards by bolts O, passing through both. The tongue is provided with projections, upon which the beams are to be supported by means of the hooks P when the cultivator is not in actual use.

Stay-rods may be employed for connecting the tongue to the ends of the axle, as shown in the drawings.

What I claim as new is—

The combination of pivoted beams F and flexible cross-bars K with the slotted axle A, having the central arch, B, the loops G, and adjustable bolts I, substantially as shown and described.

ERASMUS R. HAM.

Witnesses:

JOHN H. BUTLER,

JOHN D. WEBB.