

J. H. Hamilton,

Cultivator.

No. 107,484.

Patented Sept. 20. 1870.

Fig:1.

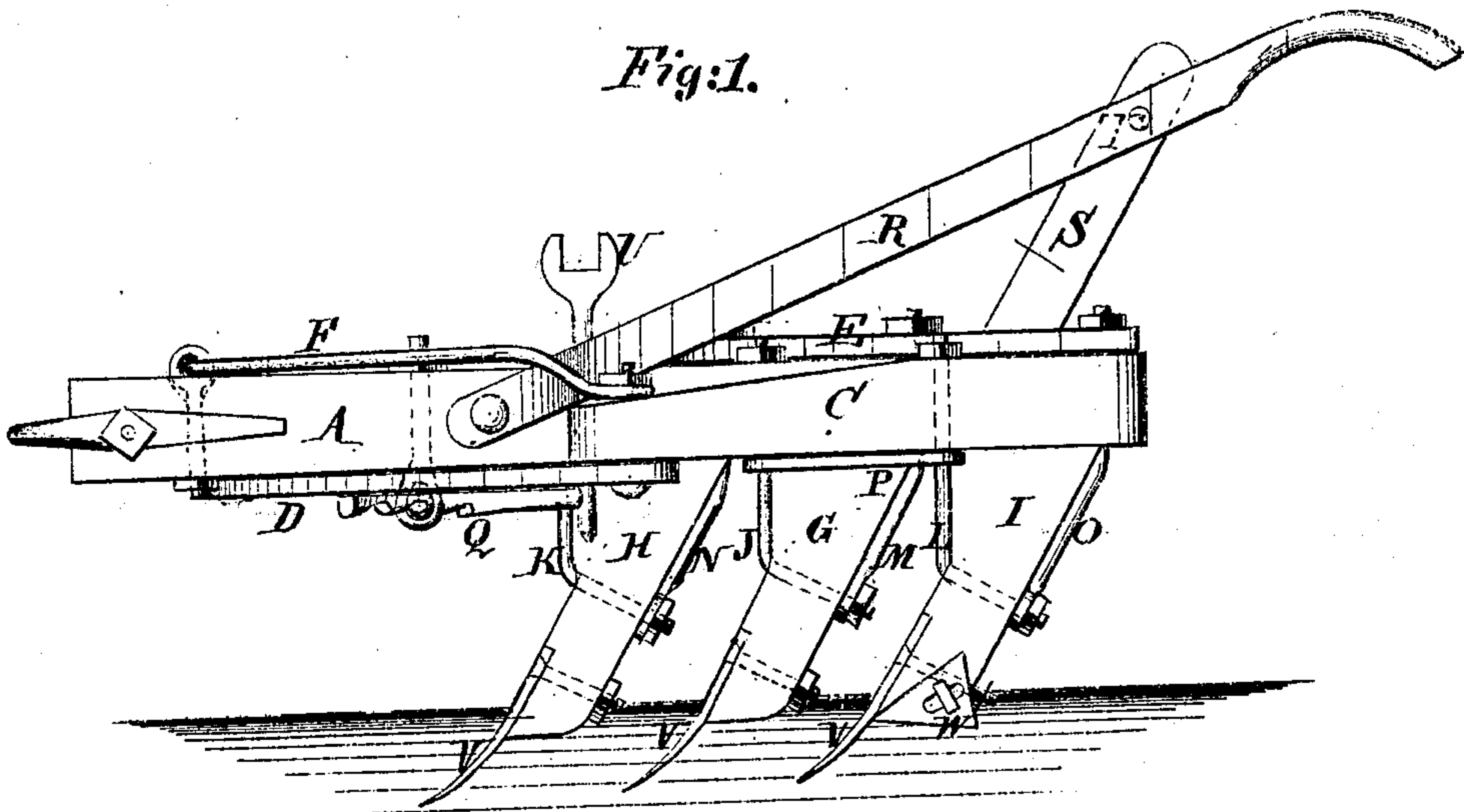
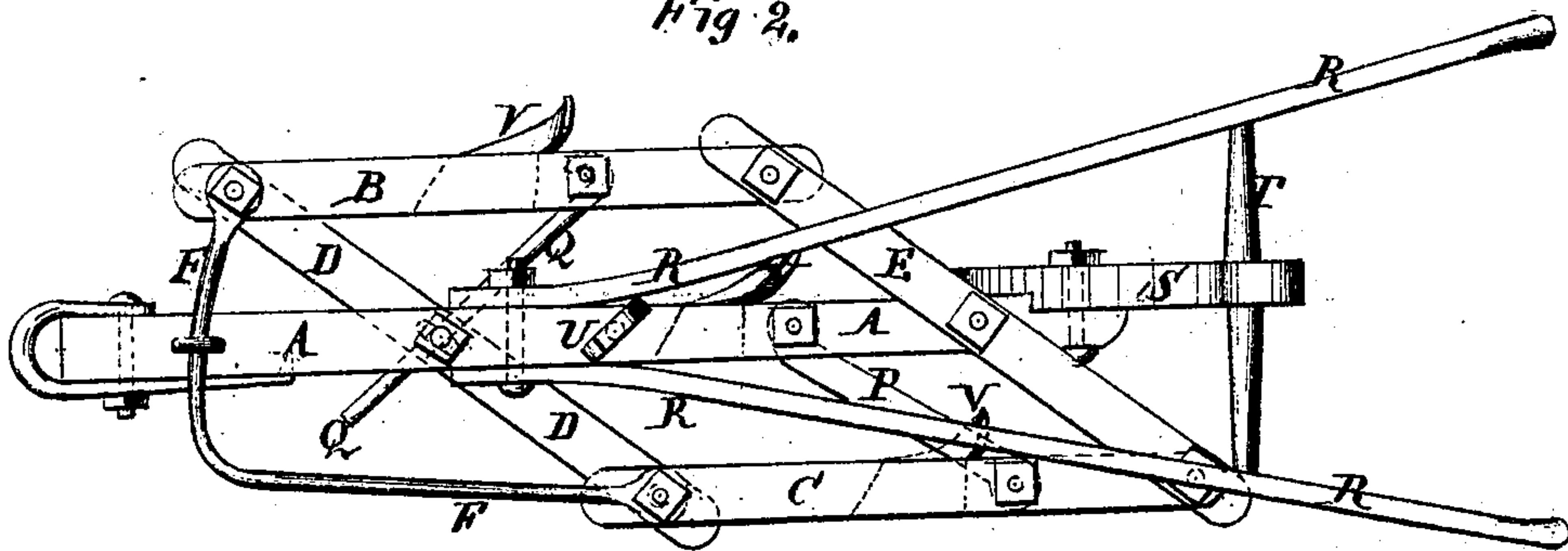


Fig 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES H. HAMILTON, OF STEVENSON, ALABAMA.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **107,484**, dated September 20, 1870.

To all whom it may concern:

Be it known that I, JAMES H. HAMILTON, of Stevenson, in the county of Jackson and State of Alabama, have invented a new and useful Improvement in Cultivators; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a side view of my improved cultivator. Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved cultivator, which shall be simple in construction, strong, durable, and effective in operation, and which may be easily adjusted to work farther apart or closer together, as may be desired; and it consists in the construction and combination of the various parts of the machine, as hereinafter more fully described.

A is the central beam of the cultivator, to the forward end of which the draft is attached.

B and C are the side beams, the forward ends of which are pivoted to the ends of the cross-bar D by bolts and nuts. The rear ends of the side beams, B C, are pivoted to the ends of the cross-bar E by bolts and nuts. The cross-bar D is pivoted at its central point to the under side of the forward part of the central beam, A, by a bolt and nut. The cross-bar E is pivoted at its central point to the upper side of the rear part of the central beam, A, by a bolt and nut. By this construction the cross-bars D E will always be parallel with each other, as are also the three beams A B C, whether said beams be wider apart or closer together. By this construction the plows will always take the ground in the same direction, in whatever position they may be adjusted, so as to always draw true. The forward ends of the beams B C are further braced and strengthened by the bent rod or bar F, the ends of which are secured to the ends of the beams B C by the same bolts that secure the said ends to the ends of the bar E. The middle part of the rod or bar F passes through a staple or

eyebolt attached to the forward part of the upper side of the central beam, A.

G H I are the plow-standards, the upper ends of which are attached to the rear ends of the beams A B C, respectively.

J K L are brace-rods, the upper ends of which pass up through the beams A B C, respectively, and have nuts screwed upon their upper ends. The lower parts of the rods J K L are bent and passed through the standards G H I, and have nuts screwed upon their rear ends.

M N O are brace-rods, the lower ends of which have eyes formed upon them, are passed over the rear ends of the rods J K L, and are secured by the nuts screwed upon said rods. The upper ends of the rods M N O pass up through the rear ends of the beams A B C, and serve as bolts for pivoting the ends of the said beams to the cross-bar E.

P is a brace-bar, the ends of which are pivoted to the brace-rods J L, to give further strength and firmness to the cultivator-frame.

Q is a brace and gage rod, the rear end of which is pivoted to the brace-rod K of the standard H. The forward part of the rod Q is notched upon its lower side, and passes through an eye formed in the lower end of the bolt, that secures the middle part of the cross-bar D to the beam A, so that when the machine is adjusted and the nut of the said bolt tightened the entire frame of the cultivator will be held rigidly in place.

R are the handles, the forward ends of which are securely bolted to the beam A, and the rear parts of which are supported and held in proper position by being connected with the upper end of the upright S by the round T. The lower end of the upright S is bolted to the rear end of the central beam, A.

U is a wrench placed in a hole or socket formed for its reception in the beam A, for convenience, so that it may be always at hand when required for use in adjusting the cultivator.

V are the plows, which are securely bolted to the lower ends of the standards G H I. The depth at which the plows work in the ground is regulated by the plate W, secured to the side of the lower end of the rear stand-

ard, I, by a bolt which passes through a slot in the said gage-plate and through the said standard, allowing the said plate to be adjusted at will.

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

An improved cultivator formed by the combination of the three parallel beams A B C, pivoted cross-bars D E, brace bar or rod F,

standards G H I, brace-rods J K L and M N O, brace-bar P, and brace and gage rod Q with each other, substantially as herein shown and described, and for the purpose set forth.

JAMES H. HAMILTON.

Witnesses:

JAMES COX,

JAMES M. COTNAM.