

(No Model.)

W. E. HEDGES & T. L. CRAFTON.
CULTIVATOR TOOTH.

No. 548,638.

Patented Oct. 29, 1895.

Fig. 1.

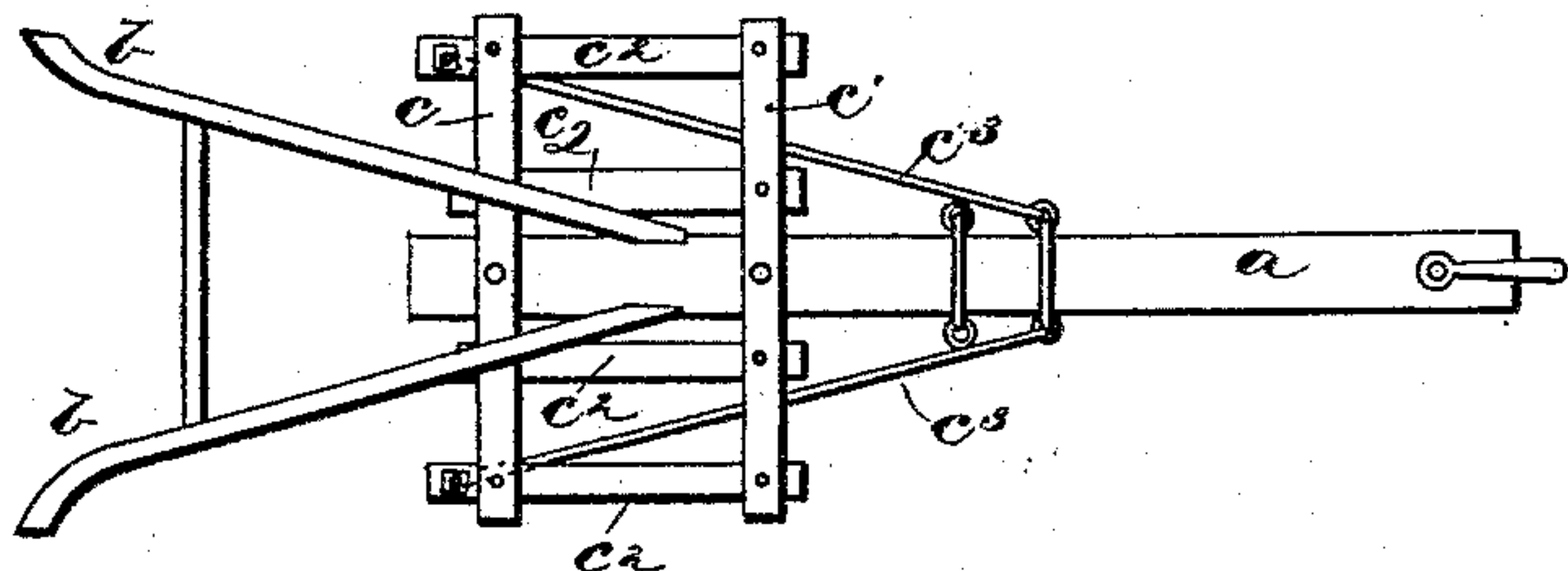


Fig. 2.

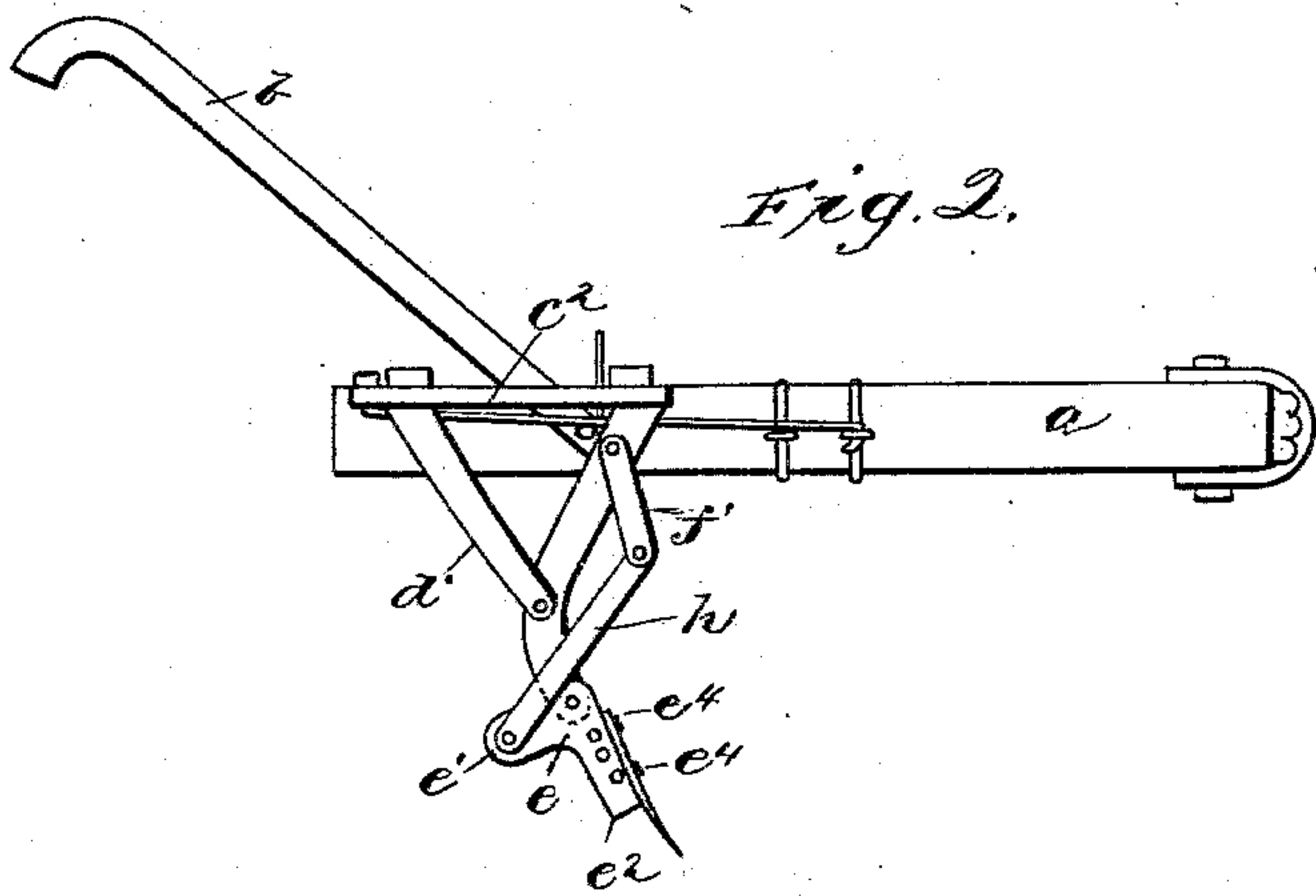
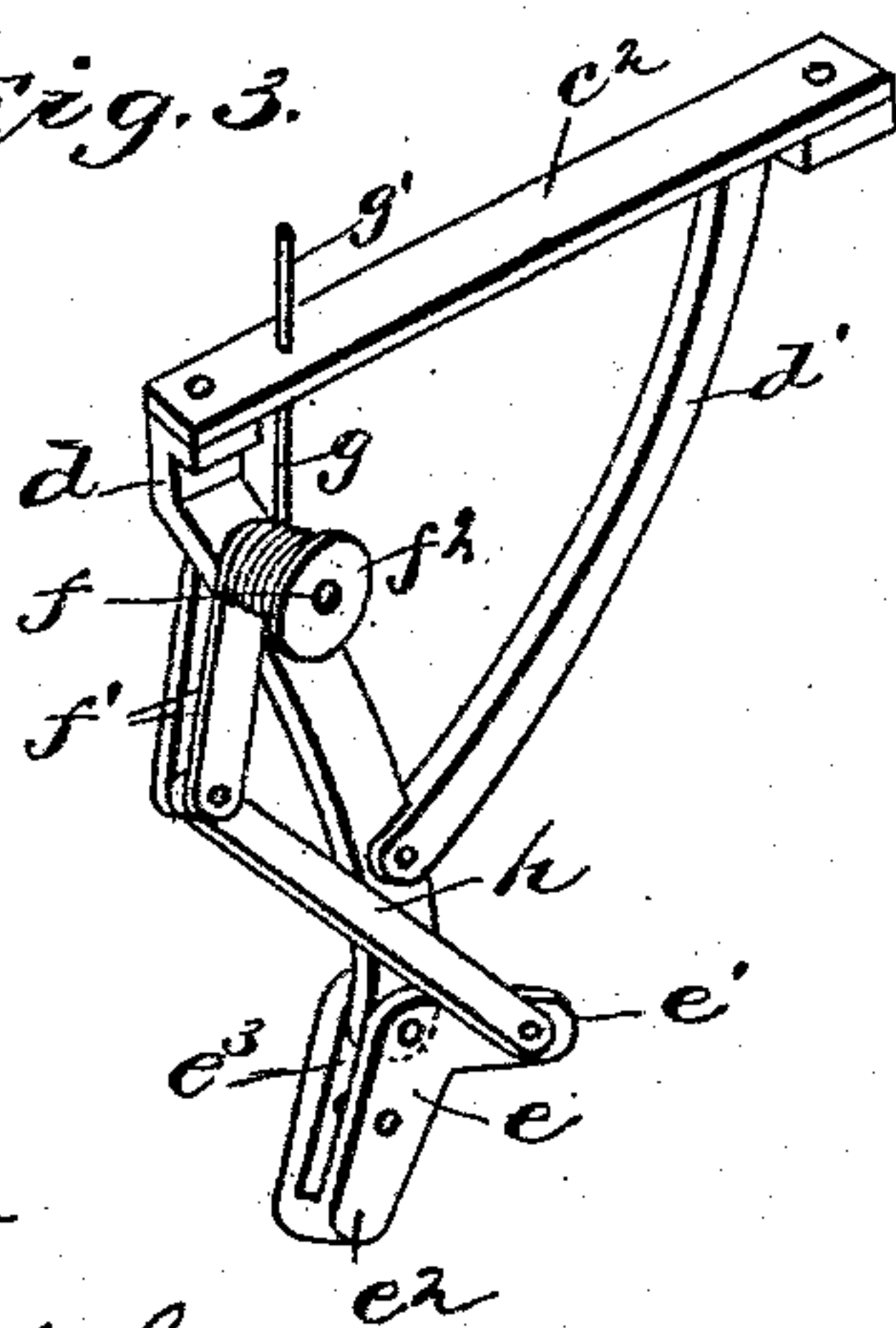


Fig. 3.



witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM E. HEDGES AND TILMON L. CRAFTON, OF BARREN FORK,
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CULTIVATOR-TOOTH.

SPECIFICATION forming part of Letters Patent No. 548,638, dated October 29, 1895.

Application filed December 6, 1894. Serial No. 530,863. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM E. HEDGES and TILMON L. CRAFTON, citizens of the United States, residing at Barren Fork, in the county of Izard and State of Arkansas, have invented certain new and useful Improvements in Cultivator-Teeth; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention has relation to cultivators; and it consists in the novel construction and arrangement of its parts.

In the accompanying drawings, Figure 1 is a top plan view of our invention. Fig. 2 is a side elevation, and Fig. 3 is a detail view.

In the accompanying drawings, *a* represents the beam; *b*, the handles; *c*, the rear pivoted cross-beam; *c'*, the pivoted front cross-beam; *c²*, the longitudinal pivoted beams, and *c³* rods for setting the cross-beams at the angle desired. To each and on the under side of the beams *c²* and to the front ends thereof are secured standards *d*, which are held firmly in place by braces *d'*.

To the lower end of the standards *d* are pivoted at its elbow elbow-feet *e*, having the arms *e'* and plow-heels *e²*. Said feet are provided with slots *e³* for the bolts *e⁴* of the plow-points to pass through in securing the plow-points to the plow-heels. The points of these plow-heels may be made in the shape of harrow-teeth, in which case the plow-points will be omitted.

To the standards *d*, and not far below the beam *c²*, are pivoted on pins *f* spools *f²*. To these spools are rigidly secured arms *f'*, and to said spools *f²* are secured coil-springs *g*, their upper ends passing through perforations *g'* in the beams *c²*.

Between the free ends of the arms *f'* are pivoted one end of the pitmen *h*, the other ends of which are pivoted to the extreme ends of the arms *e'* of the feet *e*. This arrangement holds said feet in a position ready to receive the plow-points and in a position to cultivate the soil. (See Figs. 2 and 3.)

When the plow-point strikes a stone, root, or other substance of such resistance that it cannot be removed, the plow-points are allowed to spring backward and pass over the same by means of the mechanism just described, and as soon as it has passed such obstruction it is immediately returned to its original position by means of such mechanism.

Having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In combination with a cultivator, substantially as shown and described, the standard *d*, secured to the lower face of the beam *c²*, the brace *d'*, secured to said standard and said beam; slotted foot *e*, provided with the arms *e'*; and pivoted to the lower end of standard *d*; arms *f'*, rigidly secured to spool *f²*; spool *f²*, pivoted on pin *f*; coil spring *g*, secured to said spool with one end passing up through perforations *g'*, in beam *c²*; pitman *h*, one end pivoted between the free ends of arms *f'*, and the other to the extreme end of arm *e'*, of the slotted foot *e*, substantially as shown and described and for the purposes set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM E. HEDGES.
TILMON L. CRAFTON.

Witnesses:

I. J. CRAFTON,
J. Y. HUDDLESTON.