

E. F. RATE.
Corn Cultivator.

No. 83,093.

Patented Oct. 13, 1868.

Fig:1.

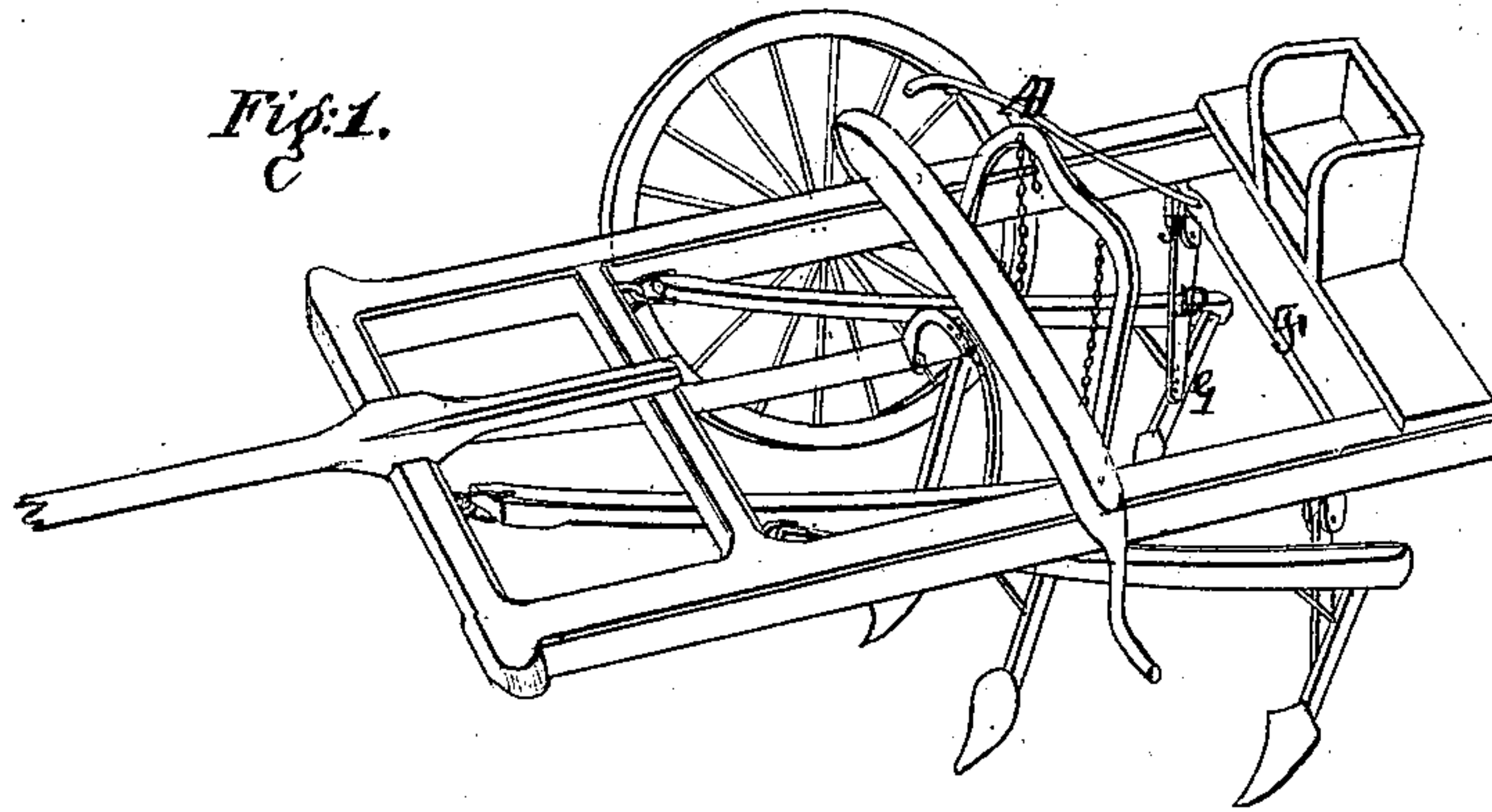


Fig:2.

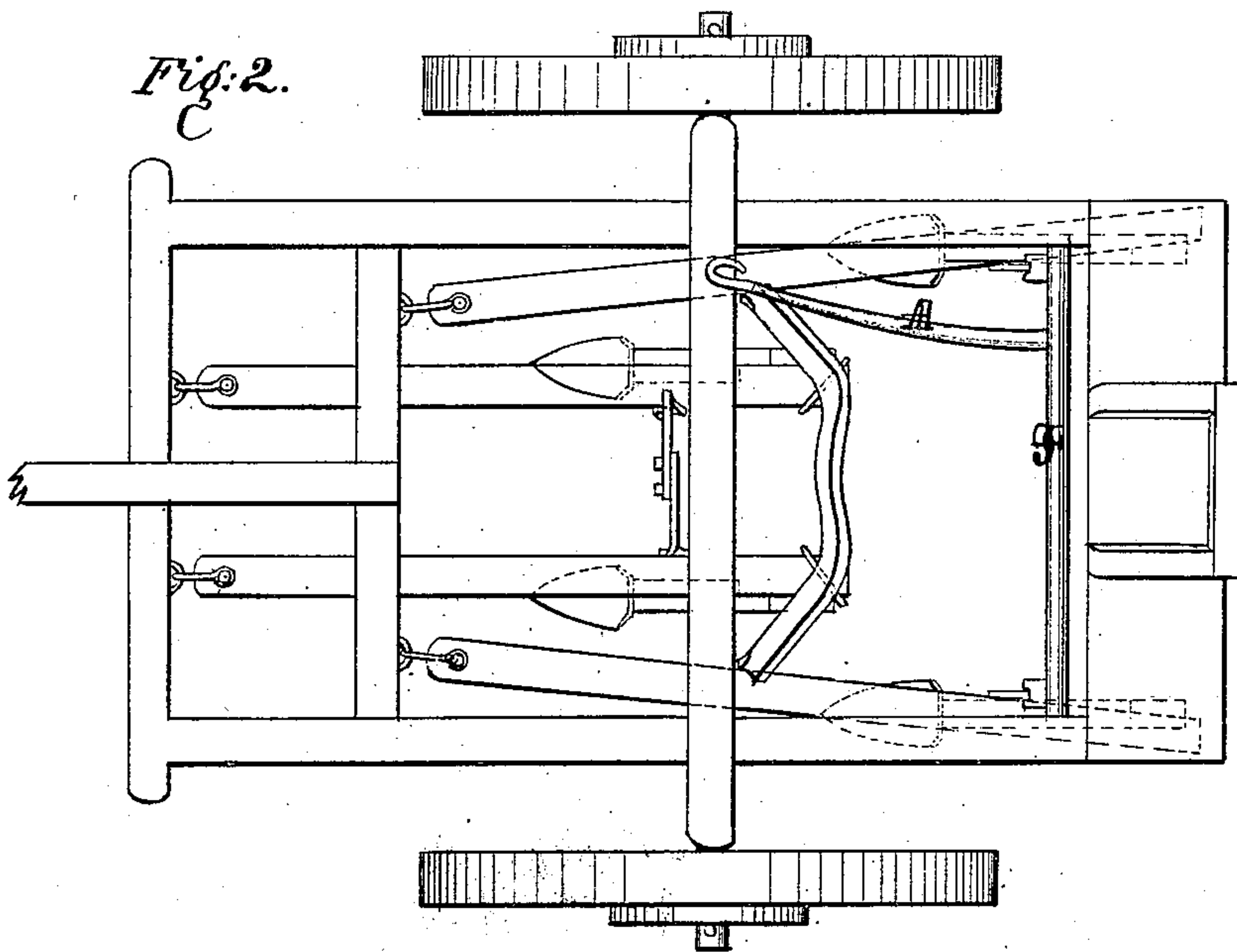
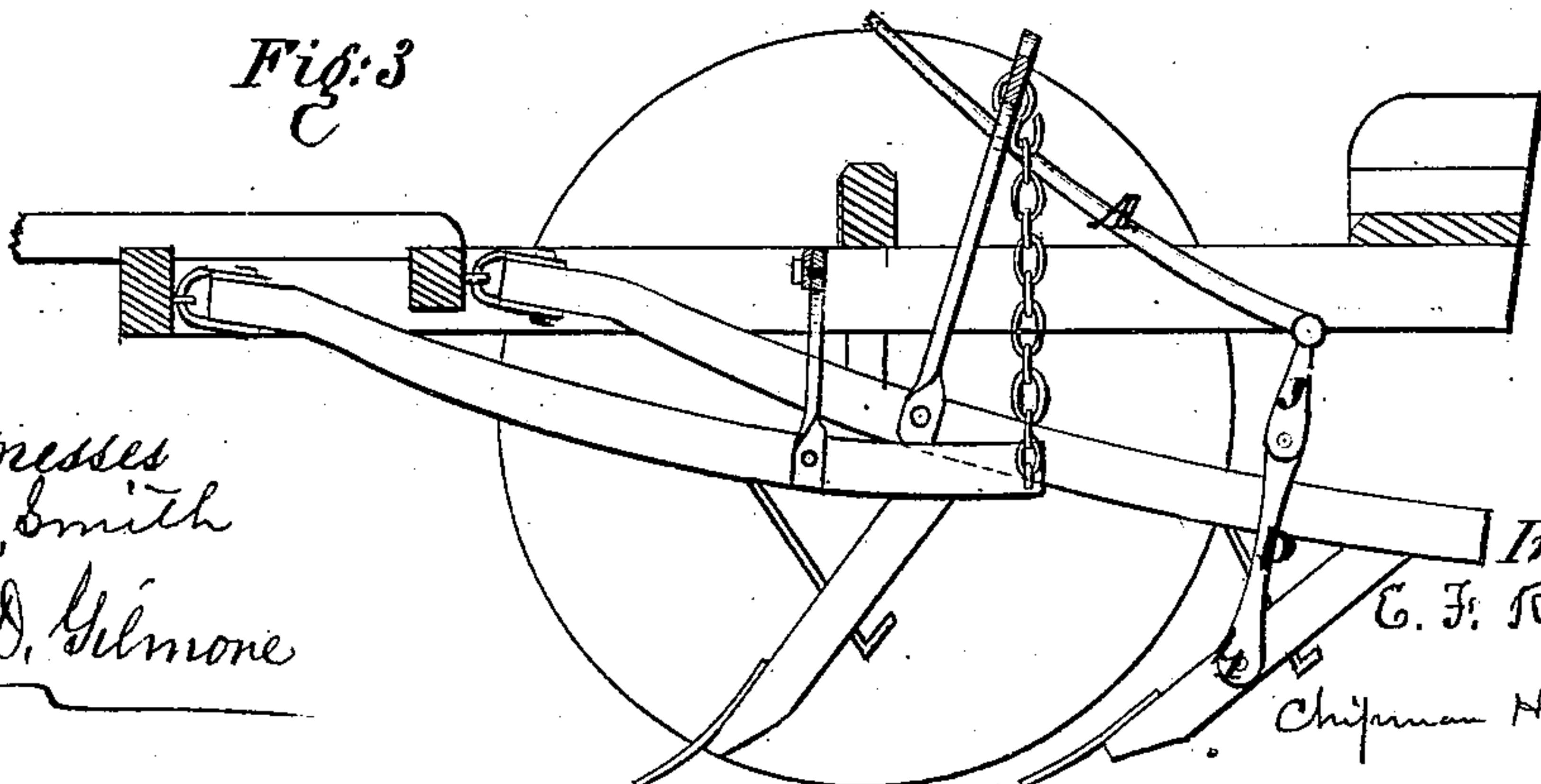


Fig:3



Witnesses
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UNITED STATES PATENT OFFICE.

EDWARD F. RATE, OF CEDAR COUNTY, IOWA.

IMPROVEMENT IN CORN-CULTIVATORS.

Specification forming part of Letters Patent No. 83,093, dated October 13, 1868.

To all whom it may concern:

Be it known that I, EDWARD F. RATE, of the county of Cedar and State of Iowa, have invented a new and useful Improvement on Corn-Cultivators; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the whole cultivator, except one wheel; and Fig. 2 is a plan view, and Fig. 3 is a sectional view, thereof.

The object of my invention is to provide better means than have heretofore been devised for regulating the depth of furrow to be plowed by the shovels of a cultivator.

My device is constructed in the usual form of sulky-cultivators, and I attach to it the lifting apparatus, described as follows: To the lower side of the side beams I affix the roller, (marked F.) The letter A represents a lever attached to said roller, with which the roller and its attachments are actuated. Letters J

are levers, adjusted in the manner shown. They are joined at their rear ends, respectively, to the roller F, and are pivoted at their front ends to the regulating-bars D. The regulating-bars D are connected with the levers J at their upper ends in the manner set forth, and they are also pivoted to the handles of the rear shovels, as represented at G.

My device is operated by raising or lowering the rear shovels at will, and of holding the shovels in the ground at any desired depth. This is accomplished by moving the lever A forward or backward as the case may require.

What I claim as my invention, and desire to secure by Letters Patent, is—

The levers A and J, roller F, and regulating-bars D, when constructed and arranged substantially as and for the purposes herein specified.

EDWARD F. RATE.

Witnesses:

N. J. HAWLEY,
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