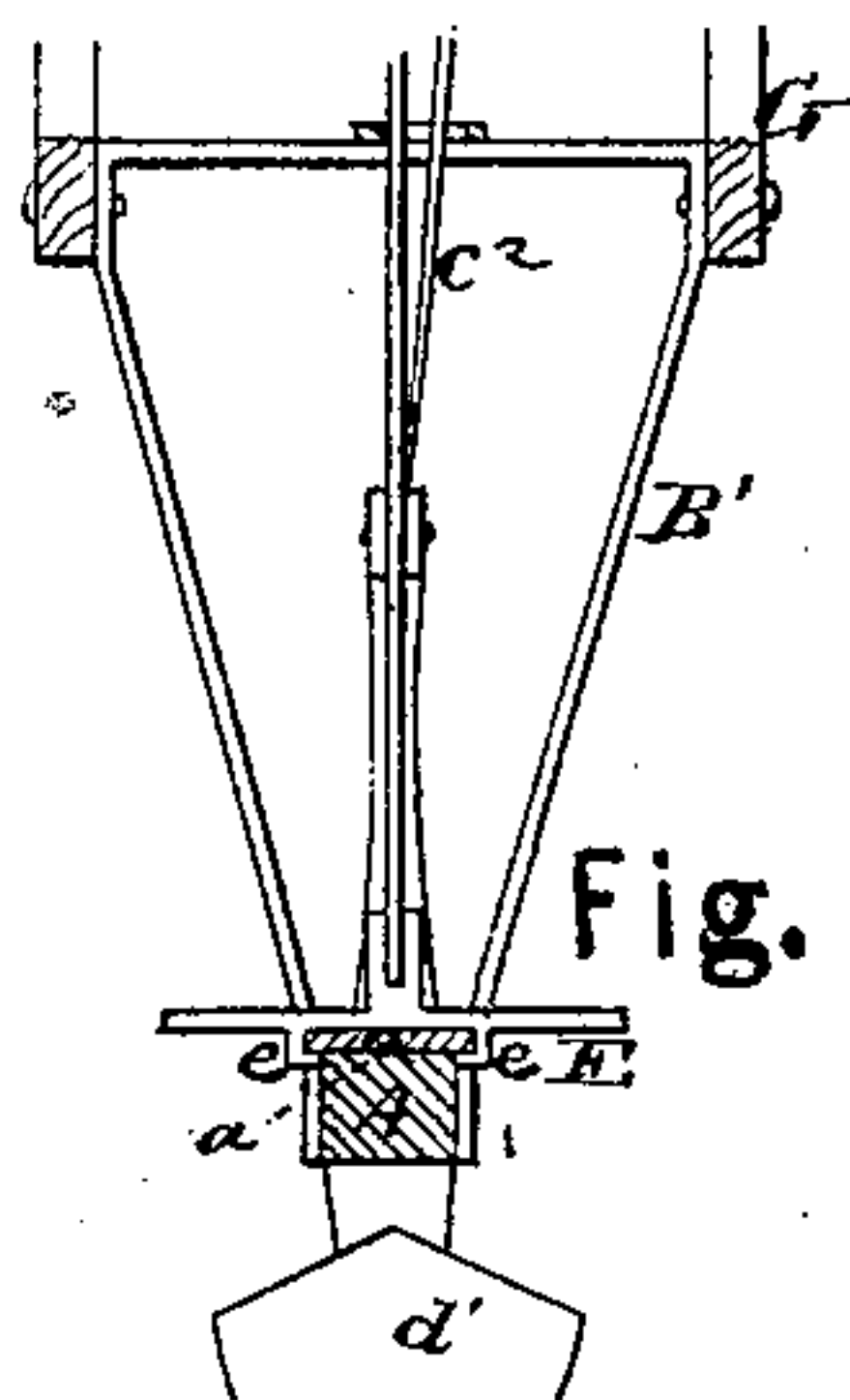
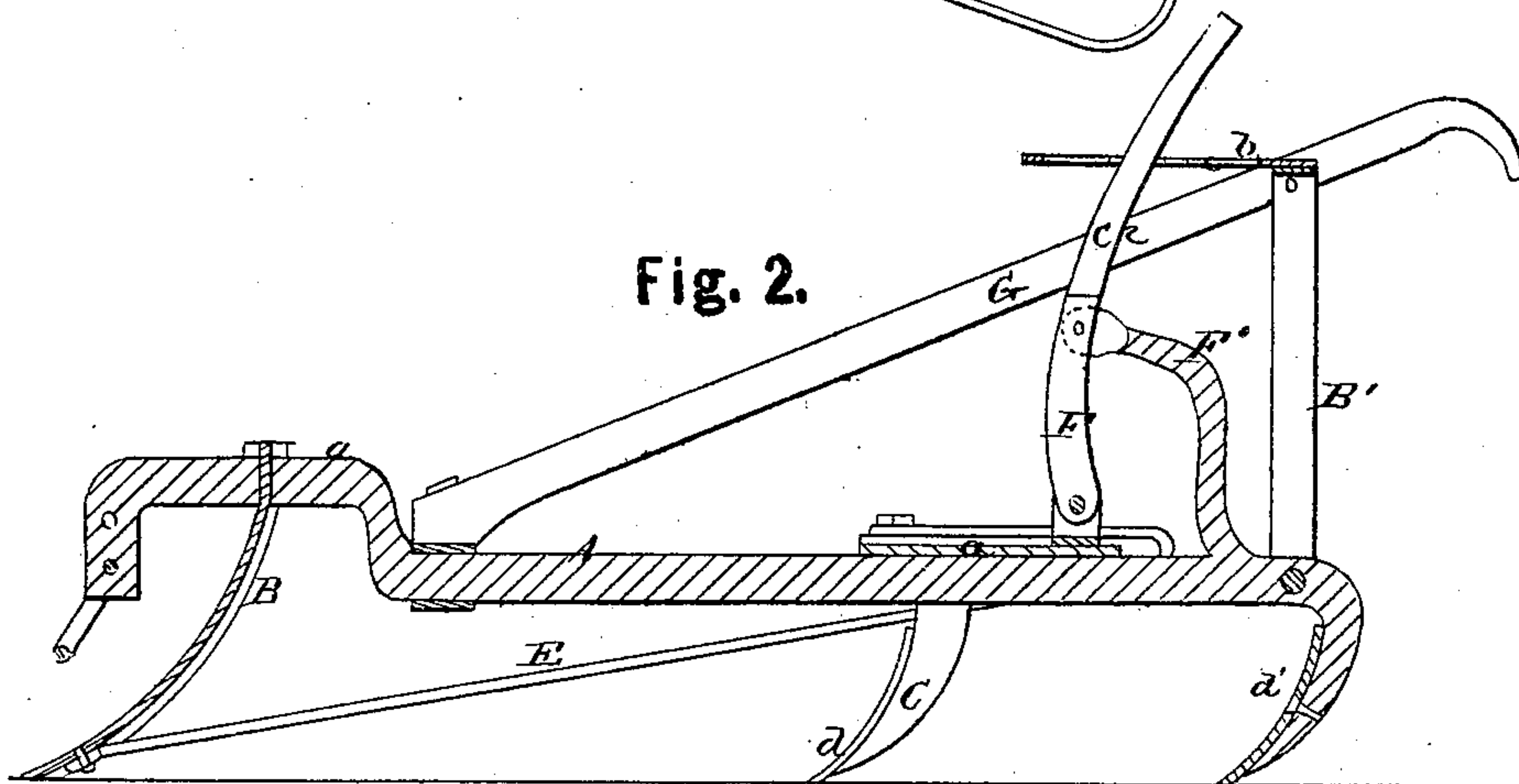
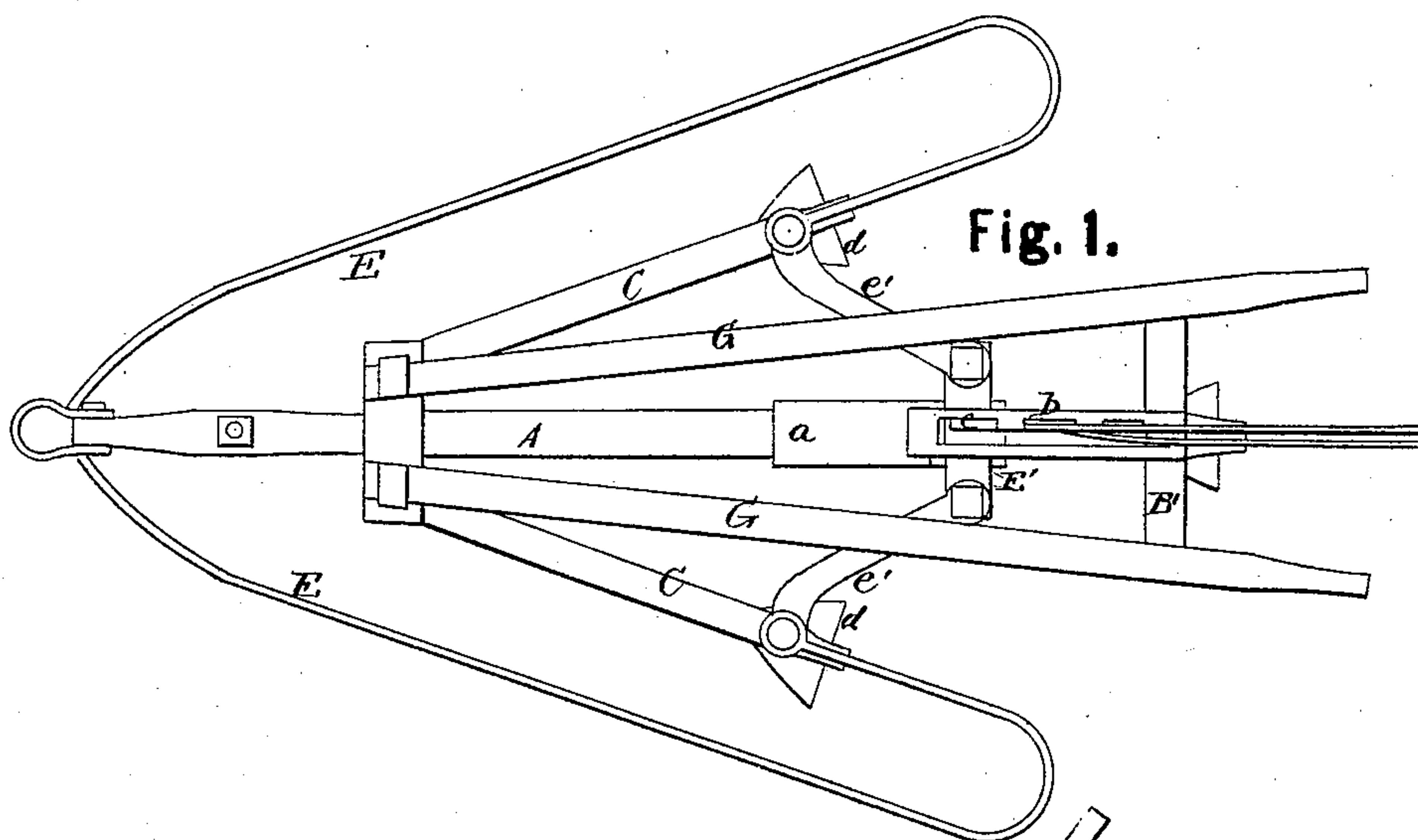


B. S. COX.

Improvement in Cultivators.

No. 132,201.

Patented Oct. 15, 1872.



WITNESSES.  
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# UNITED STATES PATENT OFFICE.

BOWMAN S. COX, OF PAULSBOROUGH, NEW JERSEY.

## IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 132,201, dated October 15, 1872.

*To all whom it may concern:*

Be it known that I, BOWMAN S. COX, of Paulsborough, in the county of Gloucester and State of New Jersey, have invented certain new and useful Improvements in Cultivators, of which the following is a specification:

In the drawing, Figure 1 is a plan view of my invention; Fig. 2 is a vertical longitudinal section; and Fig. 3 is a detail view.

This invention has relation to a cultivator having a central longitudinal beam and a pair of adjustable hinged oblique beams, the latter being operated by means of an upright lever playing through a slotted rack-bar. The novelty consists in the construction and novel arrangement of the standard to which said lever is pivoted, and of the metallic frame which supports the cultivator-handles, and the slotted rack-bar, as hereinafter described.

In the accompanying drawing, A represents the central longitudinal beam of my improved cultivator. The forward part of this beam is bent to the form of an inverted U at *a*. B is a bent tooth secured to the beam, as shown. C represents oblique beams hinged at their forward ends to the beam A. At their rear ends said beams are bent down and hold shovels *d*. The center beam is similarly bent down and also holds a shovel, *d'*. E designates vine-fenders attached to the lower part of the tooth B, thence extending back on either side of the cultivator to some distance beyond the beams C, and then bent around and back and secured to the beams, as shown. These fenders should be pivoted or hinged to the tooth and to the beams. Their object is to cast aside vines and trailing plants raised by the tooth, and prevented from falling forward by the front leg of the U-bend on the beam A. The beam A is flanged or provided with a projecting plate at *a*. E' is a cross-bar adapted to slide along said plate, and provided with bent lugs *e* to serve as guides at the edges of the plate. This plate is connected to the oblique

beams by means of toggle-arms *e'*. To the bolts securing these arms to the beams the rear ends of the fender-rods are attached. To the bar E' is pivoted an upright lever, F, which has its fulcrum at the end of a standard, F', which is of the form of an inverted L, and is welded to or otherwise made to form a part of the beam A, thereby forming a substantial and convenient, as well as comparatively inexpensive, support to the lever. To the rear end of the beam A is secured a frame, B', formed by bending a flat bar of iron to a triangular shape and bolting or notching its ends to the sides of the beam. G indicates the cultivator-handles secured at their forward ends to the cultivator-frame. Near their rear ends said handles are rigidly secured to the inclined arms of the triangular frame B'. To the middle part of the horizontal section of this frame is secured a slotted bar, *b*, having notches *c*. This bar extends forward and the lever F passes through the slot *c'*. A spring, *c''*, attached to one side of said lever, serves to force and hold the lever into said notches. By moving the lever the beams C are adjusted to their desired positions.

Having fully described my invention, I claim—

The cultivator having the central beam A holding the plate *a*, transverse bar E', and standard F'; the oblique beams C hinged at their forward ends to the beam A, and connected to the bar E' by pivoted arms *e'*; the adjustable fenders E pivoted to the tooth B and connected at their rear ends to the beams C, and the operative devices for adjusting the beams and fenders, all substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

Witnesses: BOWMAN S. COX.  
M. D. CONNOLLY,  
J. B. CONNOLLY.