

(No Model.)

R. C. NORTON.

CULTIVATOR.

No. 292,674.

Patented Jan. 29, 1884.

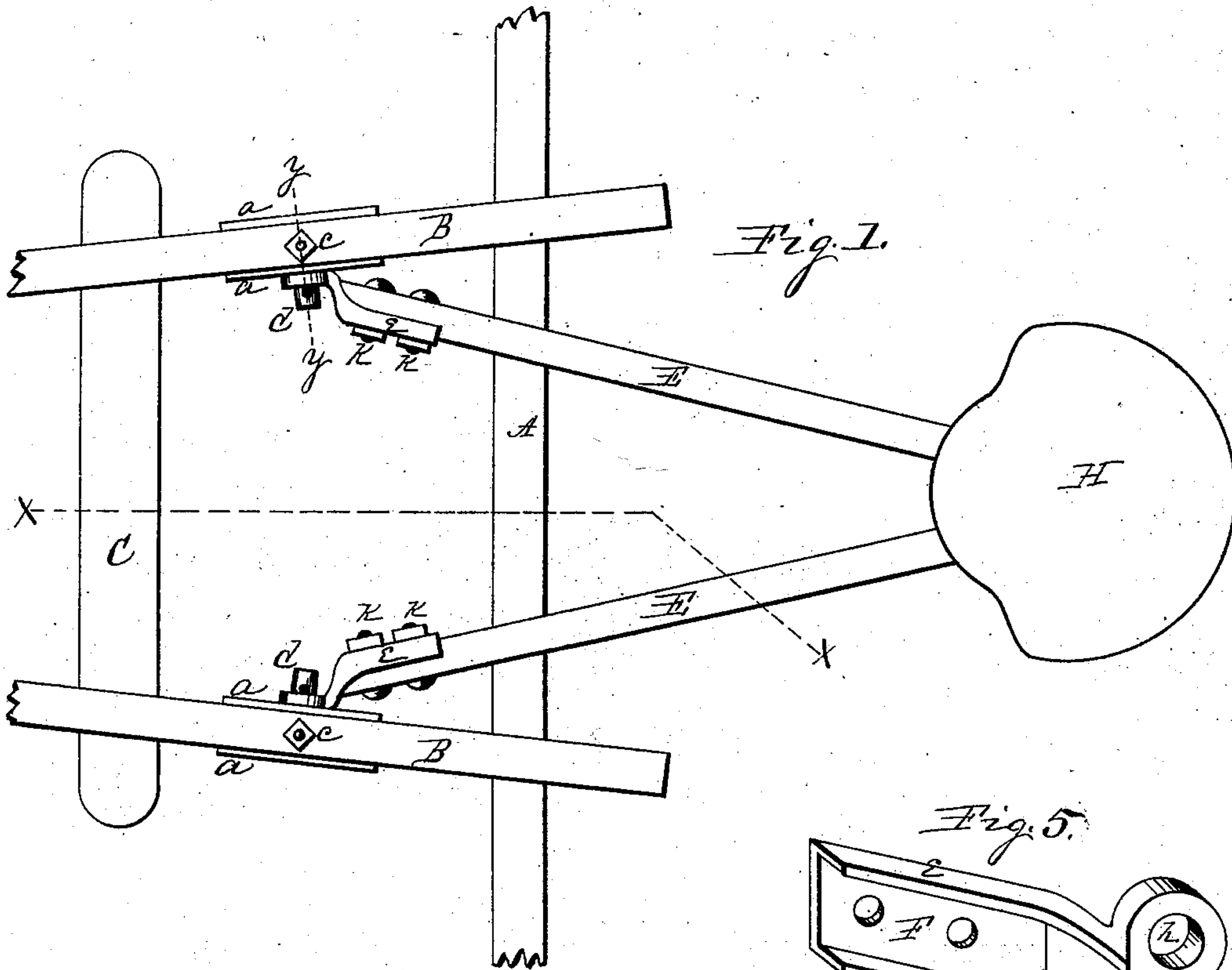


Fig. 1.

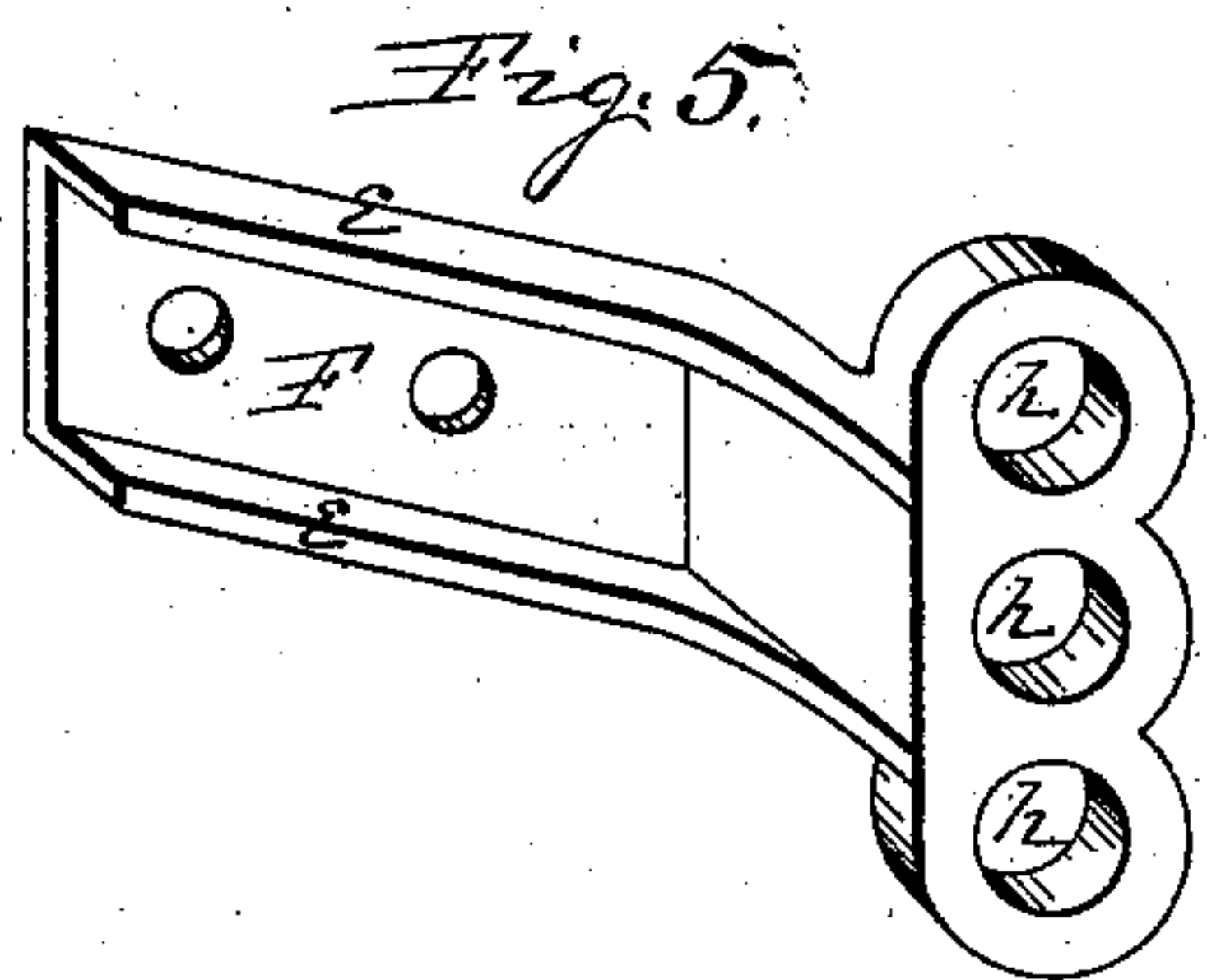


Fig. 5.

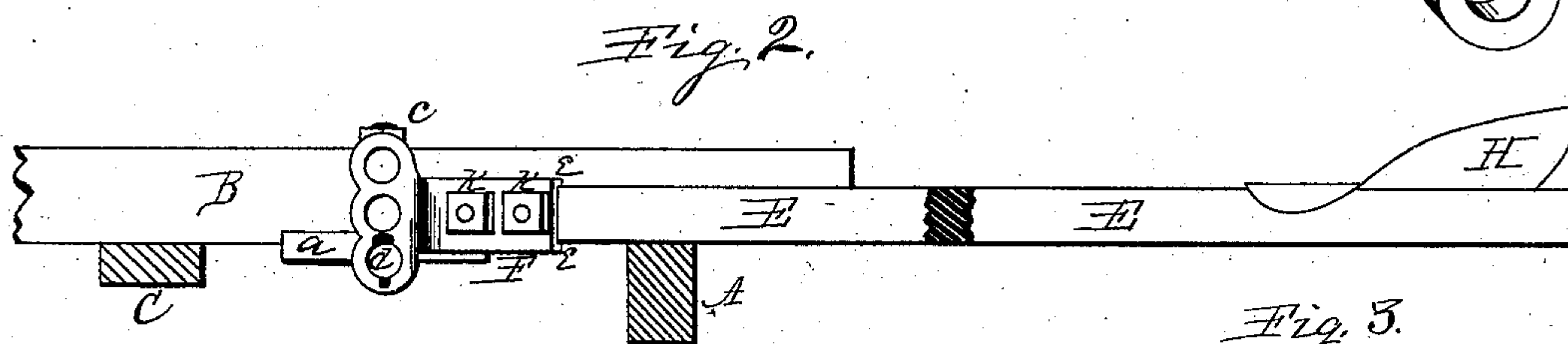


Fig. 2.

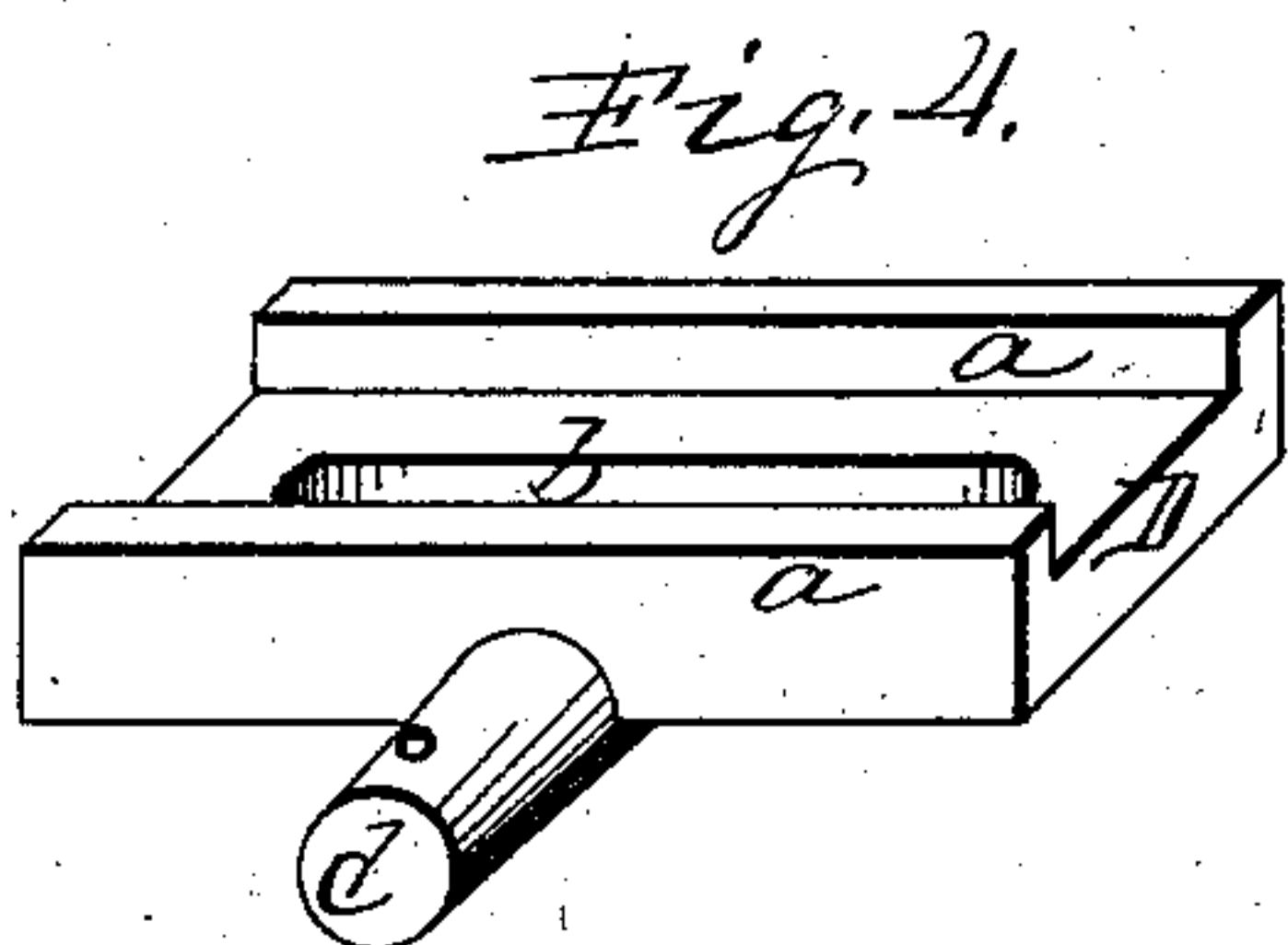


Fig. 4.

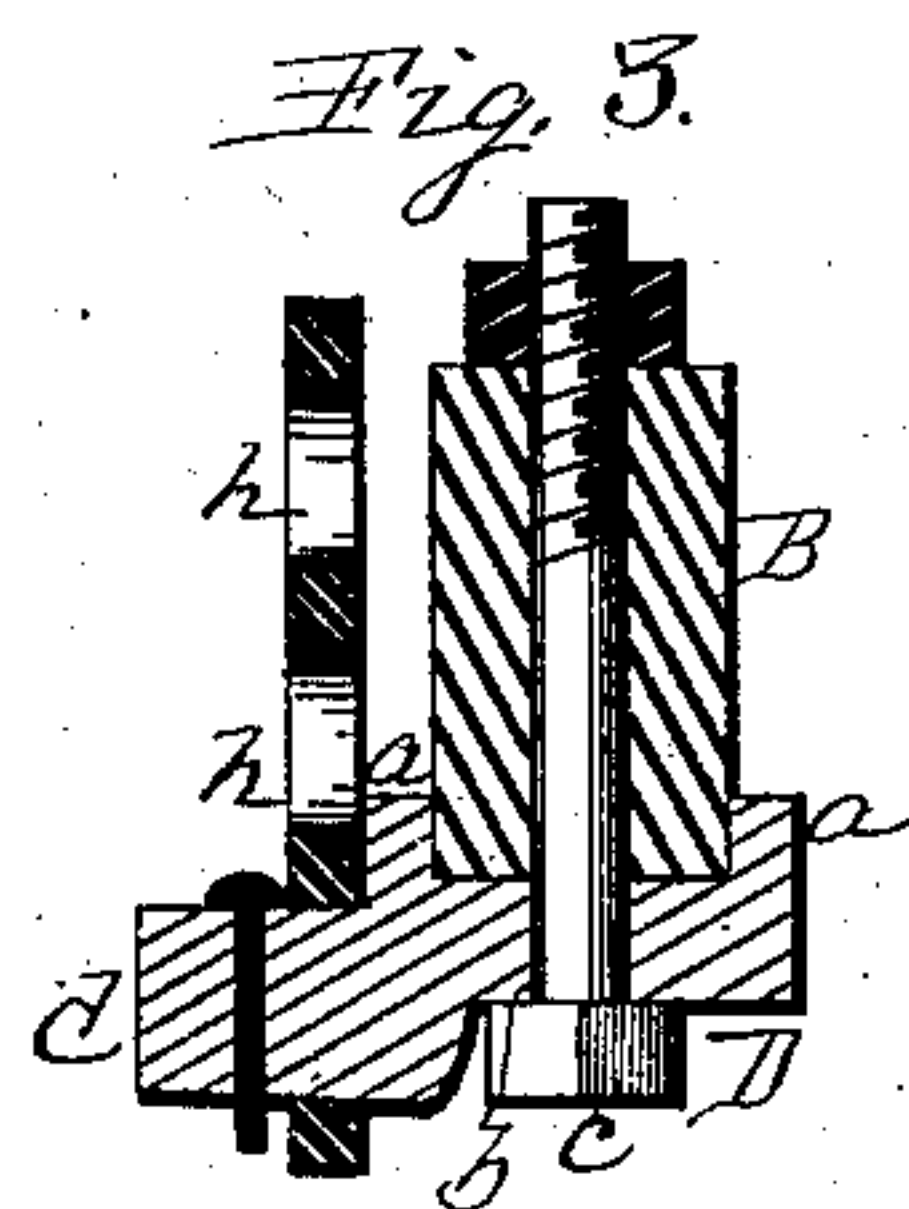


Fig. 3.

WITNESSES.
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UNITED STATES PATENT OFFICE.

REUBEN C. NORTON, OF ROCKFORD, ILLINOIS, ASSIGNOR TO UNION FOUNDRY AND MACHINE COMPANY, OF SAME PLACE.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 292,674, dated January 29, 1884.

Application filed July 14, 1883. (No model.)

To all whom it may concern:

Be it known that I, REUBEN C. NORTON, a citizen of the United States, residing in the city of Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Cultivators, of which the following is a specification.

This invention relates to that class of cultivators known as "straddle-row riding-cultivators;" and its object is to produce a machine capable of adjustment to fit the machine to be successfully used by operators varying in height or weight, or both; and it consists in a seat mounted upon a seat-frame made adjustable both vertical and lengthwise of the machine, all of which I accomplish by the devices represented in the accompanying drawings, in which—

Figure 1 is a plan view of a portion of the main frame of a cultivator with my improvements in place thereon. Fig. 2 is a central vertical section on dotted line *x*. Fig. 3 is a vertical transverse section on dotted line *y*. Fig. 4 is an isometrical representation of an adjustable support of the forward end of the seat-frame. Fig. 5 is an isometrical representation of the metallic bracket upon the ends of the seat-frame.

In the figures, A represents the wood portion of the axle-tree; B, the tongue-beams having their rear end portions fixed to the upper face of the axle-tree on the end portions thereof, and C represents a transverse draft-beam fixed to the under face of the tongue-beams a suitable distance forward of the axle-tree. These parts are of the usual size, form, and material as like parts of like machines now in use, and are joined to each other in substantially the same manner as like parts in like machines are joined to each other.

The adjustable support of the seat-frame represented in Fig. 4 consists of a bed-plate, D, to engage the under face of the tongue-beams, and vertical flanges *a* to embrace the under edge portions of the vertical sides of the beams. The bed-plate of this adjustable seat-support is provided centrally with a lengthwise slot, *b*, to receive a clamping-bolt, *c*, passed through the vertical center of the beam in such a manner as to fix the support

to the beam and permit it to be adjusted lengthwise thereon by means of its central lengthwise slot. This support is provided with a stud-journal, *d*, projecting laterally from the edge portion thereof in such a manner as to enter holes provided for its reception in brackets fixed to the forward ends of the beams of the seat-frame.

At E are represented beams of suitable dimensions suitably joined at their rear ends, from which point of connection they diverge, producing a frame of V form. The diverging ends of the beams of this seat-frame are provided with metallic brackets, (represented at Fig. 5,) consisting of a plate, F, to receive the vertical side of the beams of the seat-frame, and flanges *e*, to embrace the inner, upper, and lower corner edges thereof. The forward ends of these brackets are provided with a series of holes, *h*, in a vertical line, and are of such dimensions as to receive the stud-journals *d* of the adjustable support of the seat-frame. These metallic brackets are fixed to the forward diverging ends of the seat-frame by means of suitable screw-bolts, *k*, passed transversely through the plate and beam, and by means of the screw-nut serve to fix the parts to each other firmly.

At H is represented a driver's seat securely fixed on the rear meeting ends of the seat-frame. This seat-supporting frame, with the seat fixed thereon, is placed upon the main supporting-frame to rest upon the axle-tree as a fulcrum, having its rearward driving ends extending forward thereof in such a manner that the holes *h* in the brackets shall receive the stud-journals *d* of the adjustable support of the seat-frame in such a manner that any of the holes *h* may be placed upon the stud-journals *d*.

From the foregoing it will be seen that by means of the series of holes *h*, in connection with the stud-journals *d*, the seat may be adjusted to any height within the limits of the device to adapt it to the height of the operator; and by means of the slotted supports of the seat-frame and their screw-bolt connection with the tongue-beams the seat is made adjustable in the lengthwise direction of the machine to any extent within the limits

of the device to properly balance the machine with operators differing in weight.

I claim as my invention—

5 The combination of the tongue-beams provided with the slotted adjustable flanged bed-plates, the seat frame beams provided with the brackets F, having a series of adjusting

holes, and stud-journals connecting said parts together, substantially as and for the purpose set forth.

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Witnesses:

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