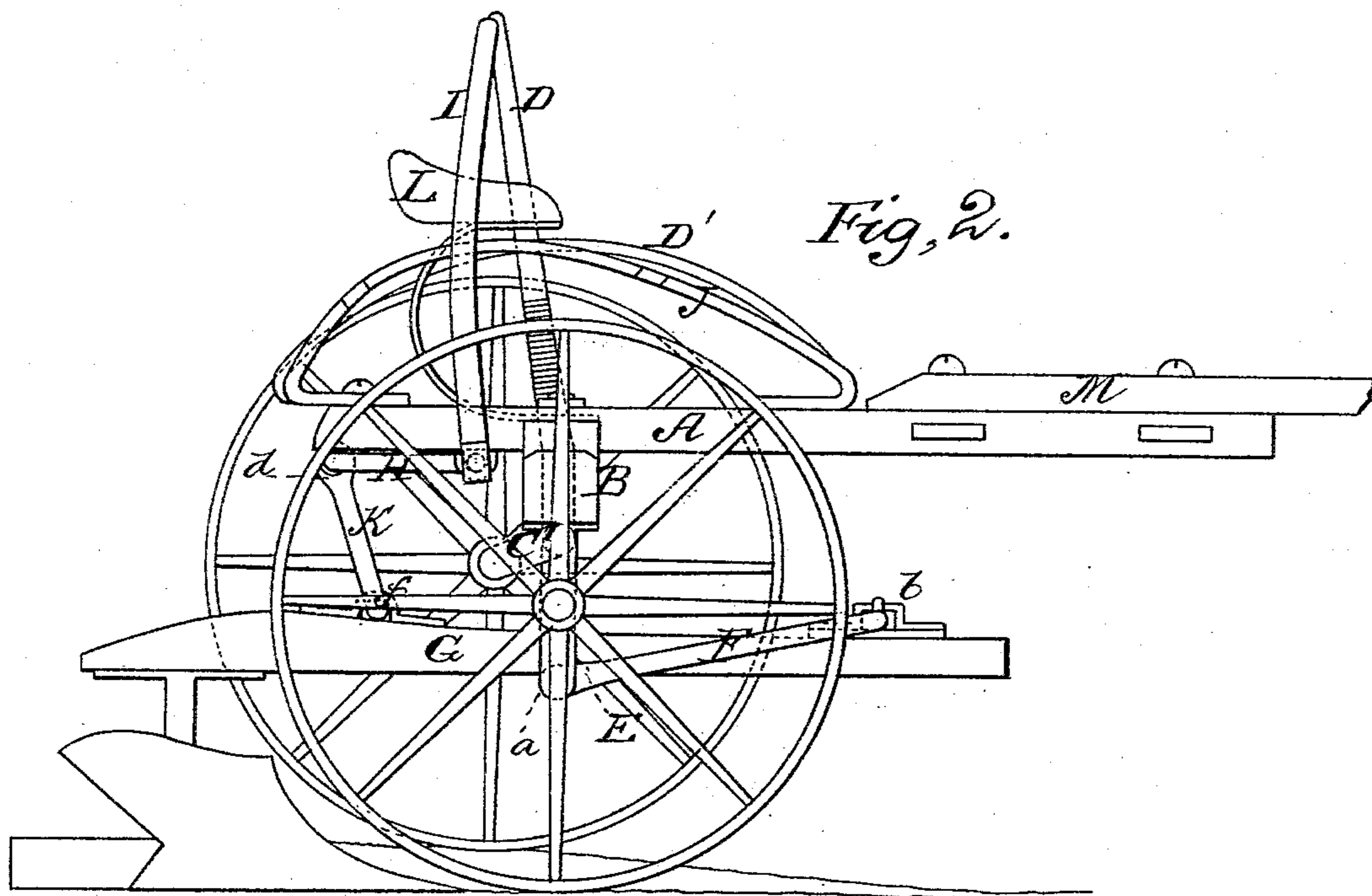
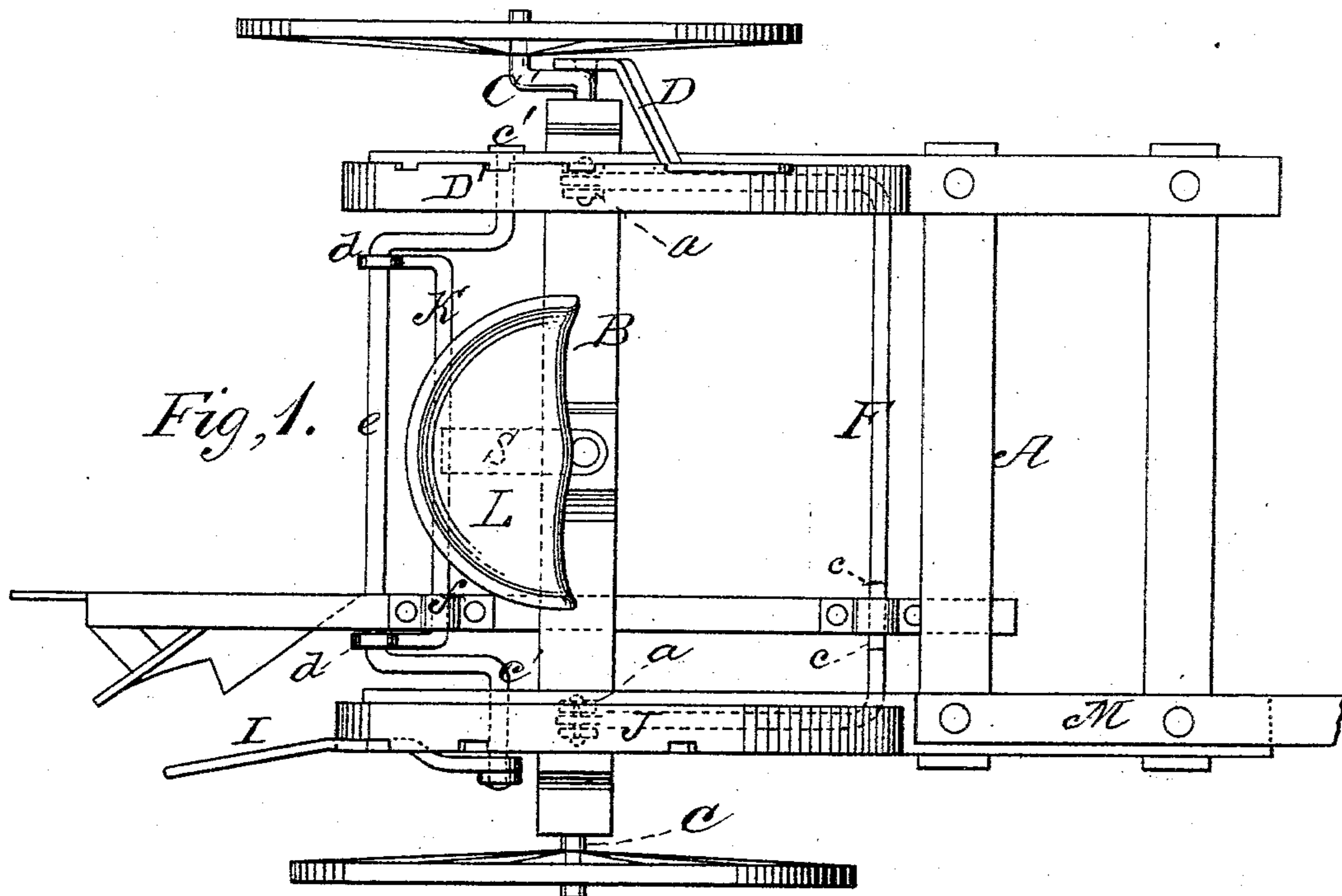


H. H. CANADAY.
Plow.

2 Sheets—Sheet 1.

No. 210,992.

Patented Dec. 17, 1878.



WITNESSES

Villette Anderson.
A. J. Mass.

INVENTOR

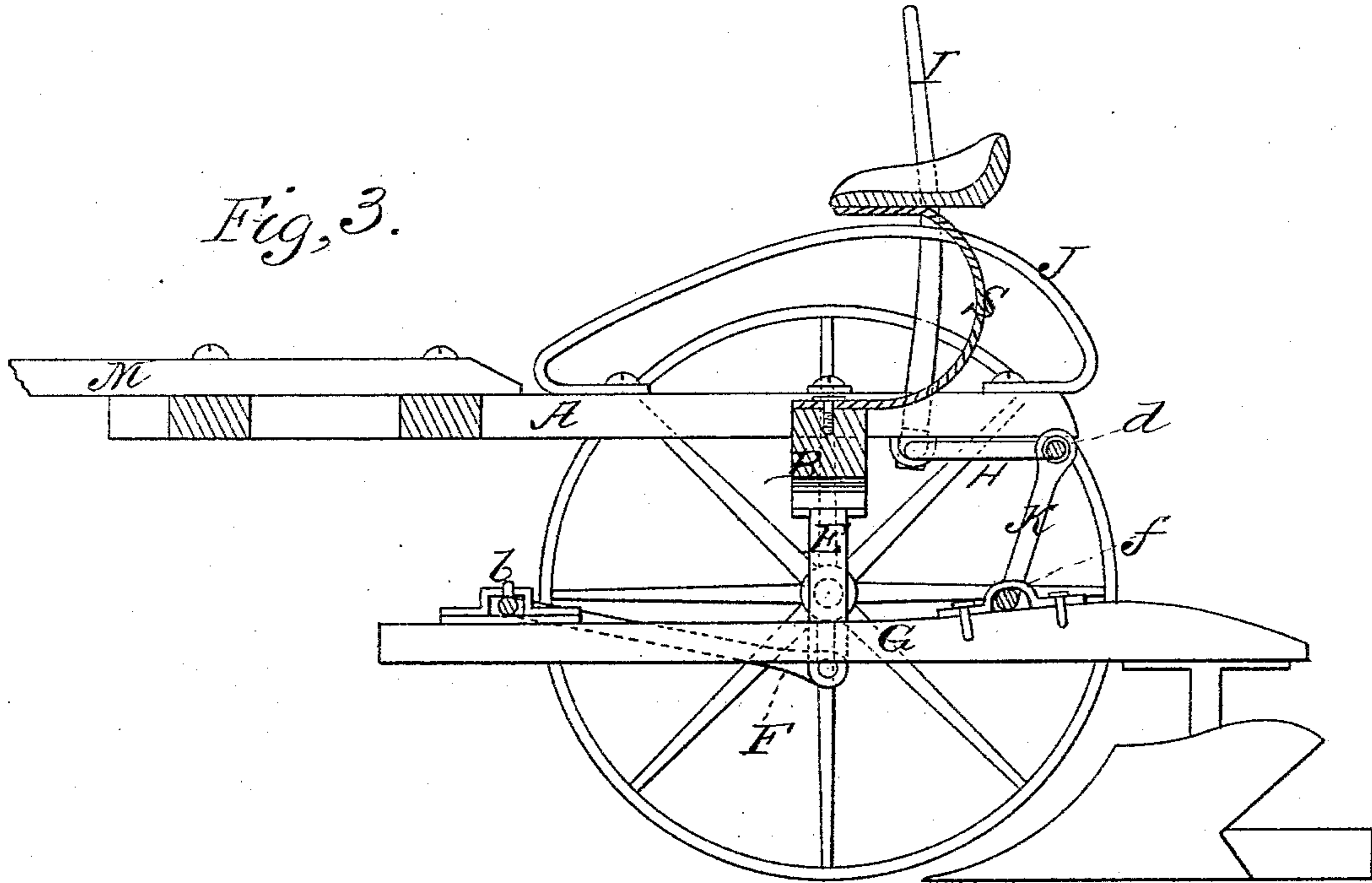
H. H. Canaday,
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ATTORNEY

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WITNESSES

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UNITED STATES PATENT OFFICE.

HUGH H. CANADAY, OF FAIRFIELD, IOWA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **210,992**, dated December 17, 1878; application filed November 9, 1878.

To all whom it may concern:

Be it known that I, H. H. CANADAY, of Fairfield, in the county of Jefferson and State of Iowa, have invented a new and valuable Improvement in Plows; 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, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a top view of my invention. Fig. 2 is a side view of the same, and Fig. 3 is a longitudinal vertical section thereof.

This invention has relation to improvements in sulky-plows.

The object of the invention is mainly to devise means in sulky-plows whereby the plow may be held rigidly down to the ground and be made to cut a furrow of uniform depth.

The nature of the invention consists in the combination, with a platform having depending hangers, a vibrating bail swinging on said hangers, and a plow-beam coupled to said bail, of a swinging bail at the rear of the frame, its operating-lever, a ratchet controlling said lever, and a clevis-bail vibrating on the swinging bail and coupled to the rear portion of the beam, as will be hereinafter more fully set forth.

In the annexed drawings, the letter A designates the frame of my improved riding-plow, the same being of rectangular form and properly braced. To this frame is bolted, upon its under side, a cross-beam, B, to which are secured the crank-axle arms C C'.

Arm C is permanently secured and fixed to the beam B; but the arm C' is journaled thereon, so that it vibrates vertically. It has rigidly secured thereto a lever, D, that vibrates along the edge of a segmental metallic ratchet, D', rigidly secured to the side of the frame adjacent to the said lever. By actuating this lever the frame may be leveled when plowing hill-sides and under other circumstances, the adjustment thus had being maintained by engaging the said lever with the ratcheted segment D'.

E indicates strong metallic hangers, depend-

ing from beam B and rigidly secured thereto. These are arranged at a sufficient distance apart, and are forked at their lower ends, as shown at *a*, Fig. 2.

F represents a strong U-shaped metallic bail, the side bars of which are at right angles to the cross-bar. This frame or bail is pivoted by its ends to the lower ends of the hangers E, and has free vertical vibration relative thereto.

The front of this bail extends nearly as far forward as the frame, and has coupled or secured thereto the front end of the plow-beam G. This is accomplished by means of a suitable clamp device, *b*, that is held in a fixed position by means of stops *c* on the front bar of said bail. These stops may be made adjustable on bail F, if I so elect.

H indicates an adjuster-bail, of the general form of the letter U, having at its ends journal-arms *c'*, arranged in bearings at the rear end of the main frame.

To the journal-arm *c*, at the opposite side of the frame from the lever D, is rigidly secured a lever, I, by means of which the said bail is operated to vibrate vertically in its bearings. This lever vibrates along the edge of a segmental rack, J, and is engaged therewith under circumstances hereinafter set forth.

K indicates a clevis-bail, the ends of which are provided with eyes *d*, through which the end bar of the bail H passes. The clevis-bail depends from the end bar *e* and swings vertically thereon, and is connected, as shown in Fig. 1, to the rear portion of the plow-beam by means of a clamp device, *f*, or its equivalent.

When the lever I is thrown to the front and engaged with the rack J, the bail H is vibrated upward, thus raising the clevis-bail K and lifting the plow out of the ground. When it is thrown back in reversal of the movement aforesaid, bail H is swung down, lowering the clevis-bail, and causing the plow to take hold of the ground. The lever being then engaged with the ratchet, the bails H K are locked against vibration, and the plow is held down into the ground, thereby causing it to cut a furrow of uniform depth.

The driver's seat L is supported upon a spring,

S, midway between the levers D I, and the draft-tongue M is secured to the frame A at its right-hand side.

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

The combination, with the platform A, having depending hangers E, the vertically-vibrating bail F, pivoted thereto, and the beam G, coupled to said bail at its front end, of the swinging bail H, its operating-lever I, the

ratchet J, and the clevis-bail K, vibrating on the bail H and coupled to the beam, substantially as specified.

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

HUGH HENRY CANADAY.

Witnesses:

W. B. CULBERTSON,
L. PETTY.