L. DOMING.

Wheel-Plow.

No. 68,718. Patented Sept. 10, 1867.

Fig. 1.

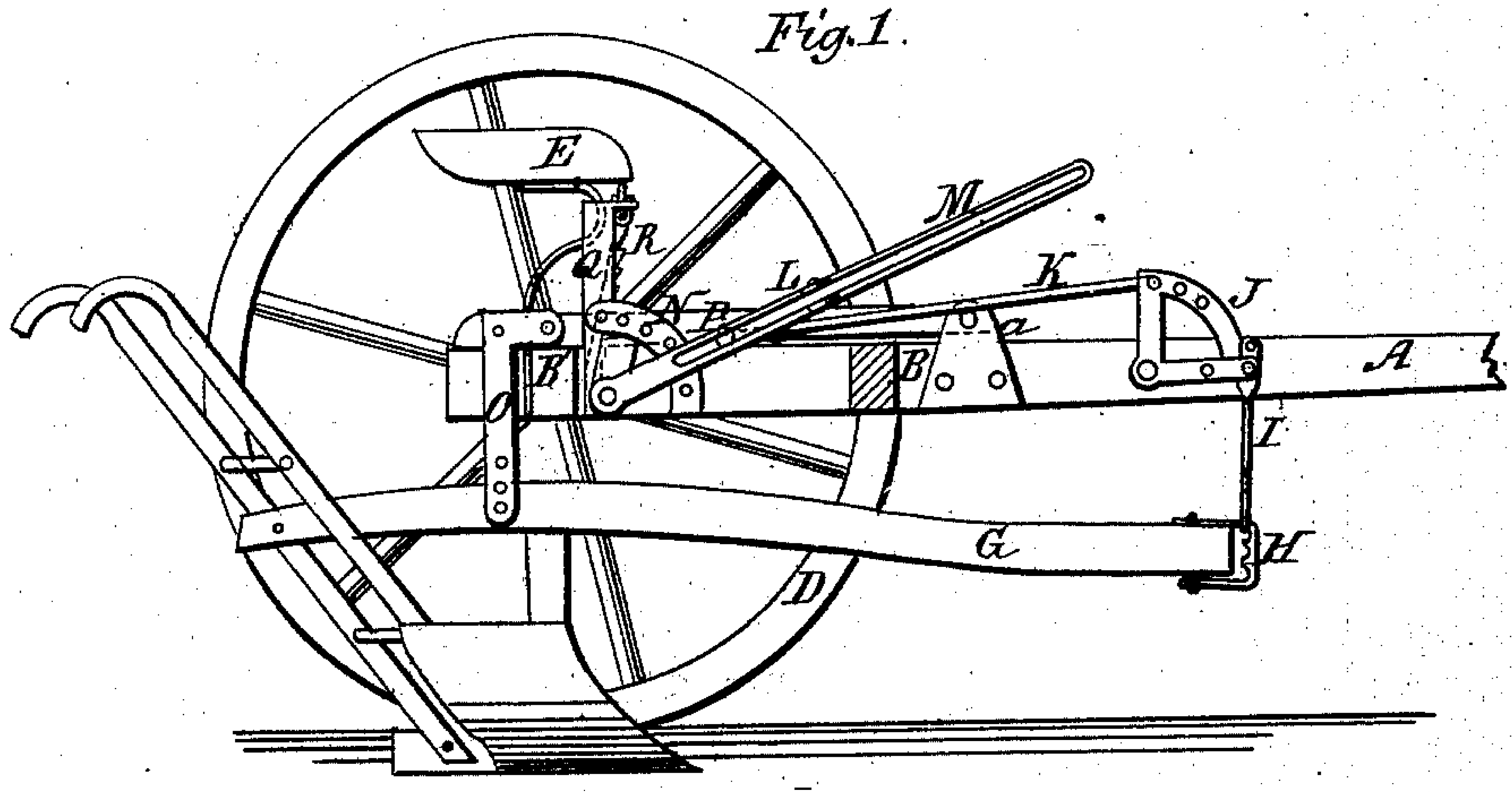


Fig. 2.

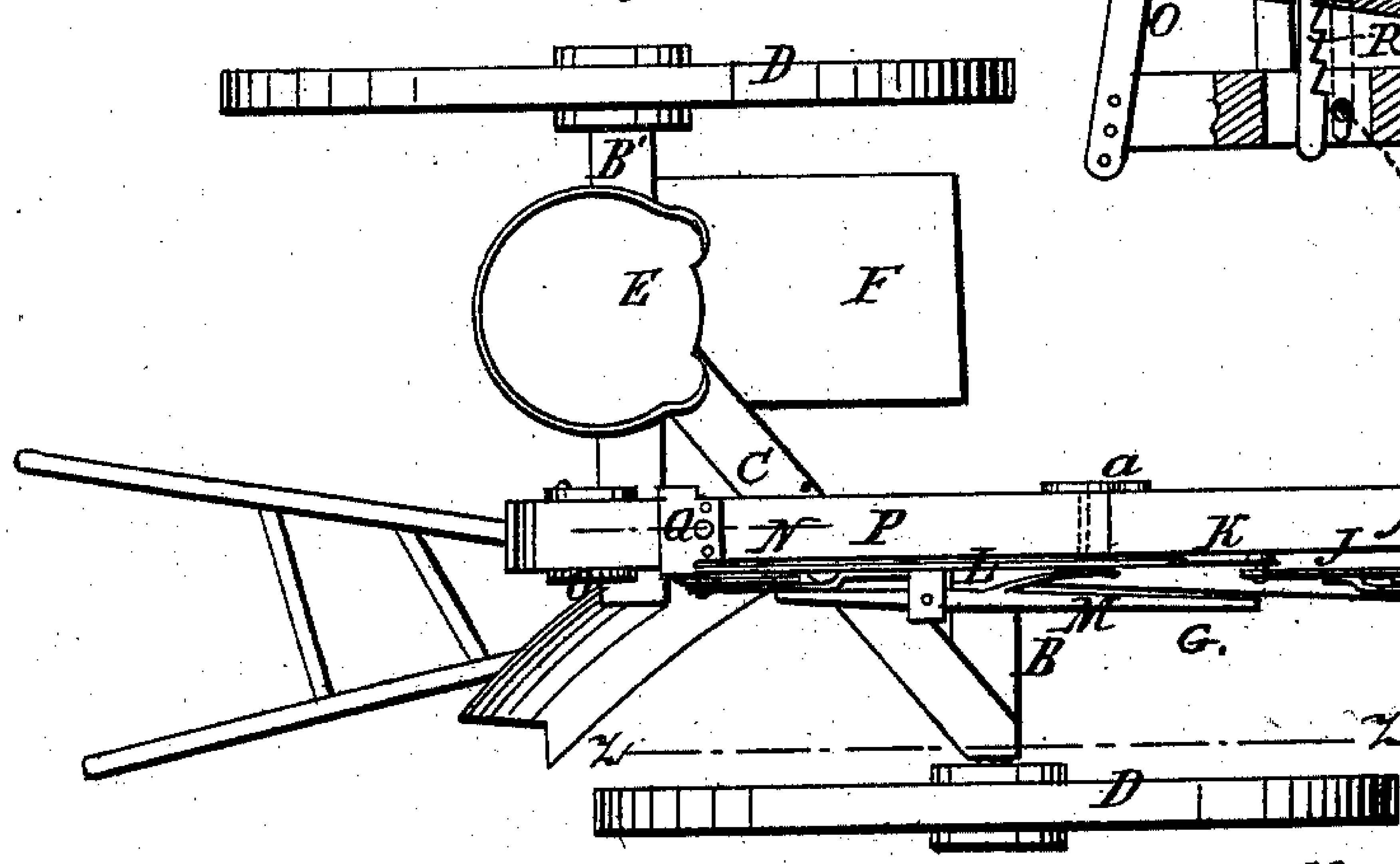
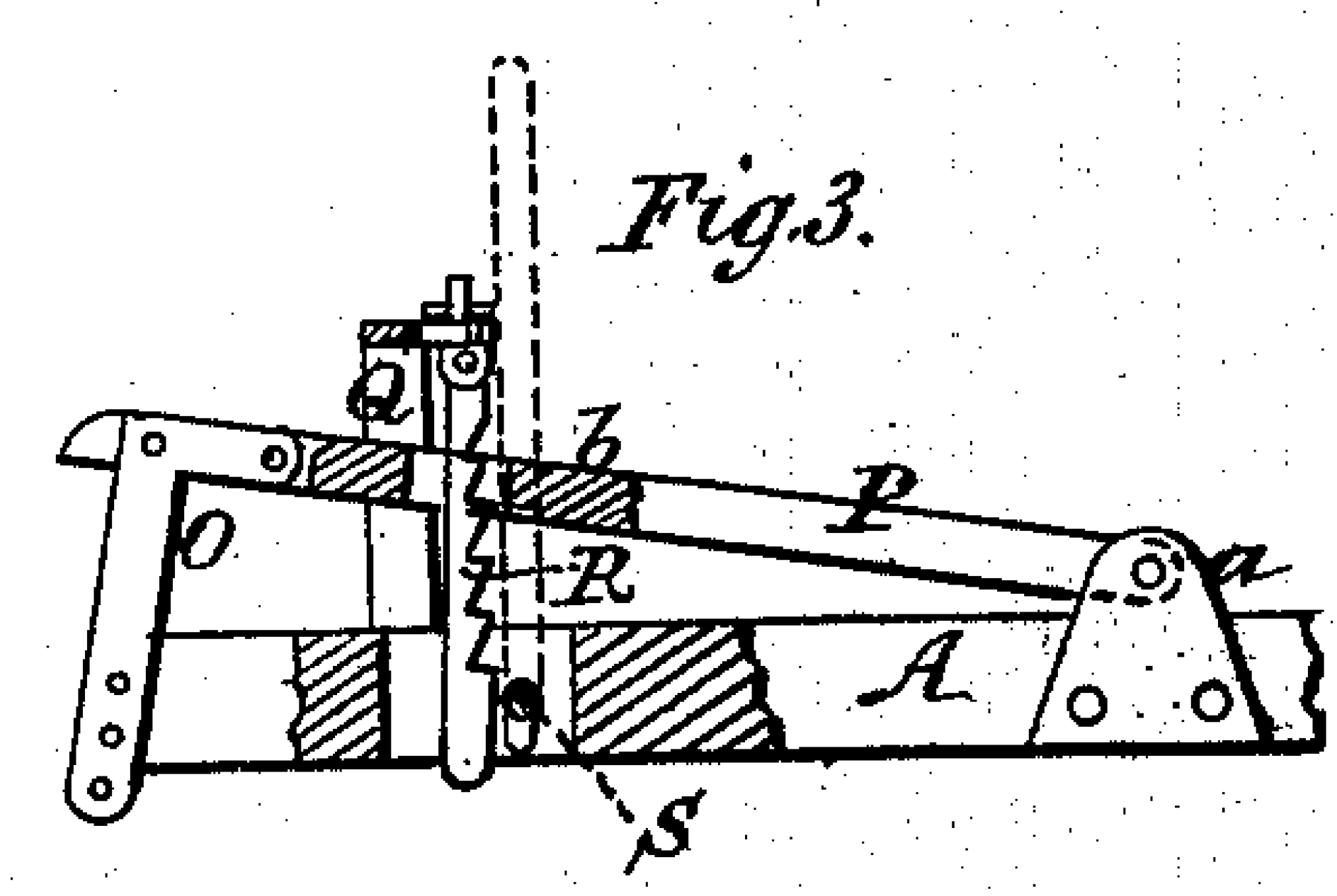


Fig. 3.



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LORENZO DOMINY, OF OTTAWA, ILLINOIS.

Letters Patent No. 68,718, *dated September* 10, 1867.

IMPROVEMENT IN RIDING ATTACHMENT FOR PLOUGHS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, LORENZO DOMINY, of Ottawa, in the county of La Salle, and State of Illinois, have invented a new and improved Riding Attachment for Ploughs; and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements, by which my invention may be distinguished from all others of a similar class, together with such parts as I claim, and desire to have secured to me by Letters Patent.

This invention relates to a new and improved riding attachment, which is capable of having any ordinary tillage-plough attached to it.

The invention consists in a novel manner of connecting the plough to the riding attachment, and in a peculiar construction of the latter, whereby it is believed that several advantages are obtained over the ordinary riding attachments in use. In the accompanying sheet of drawings—

Figure 1 is a side sectional view of my invention, taken in the line *x x*, fig. 2.

Figure 2, a plan or top view of the same.

Figure 3, a longitudinal section of a portion of the same, taken in the line *y y*, fig. 2.

Similar letters of reference indicate like parts.

A represents the draught-pole of the device, which has two axles B B′ attached to it, one, B, in advance of the other, B′, and the latter of greater length than the other, and braced by a diagonal bar, C, as shown clearly in fig. 2. The wheels D D turn loosely on their axles, and on the back axle the driver's seat E is secured, and also the foot piece F. G is the beam of an ordinary tillage-plough, the front end of which has a clevis, H, attached, in which the lower end of a vertical rod, I, is fitted, the upper end of said rod being attached to one end of a bell-crank, J, the opposite end of the latter being connected by a rod, K, with a lever, L, secured to the rear part of the draught-pole. This lever may be retained at any desired point within the scope of its movement by means of a spring-catch, M, which may be made to engage with any of a series of holes in a segment bar, N, at the rear end of the draught-pole. The beam of the plough, at a short distance from its rear end, is connected by a stirrup, O, with the rear end of a bar, P, the front end of which is secured by a hinge, *a*, to the draught-pole A. The bar P is fitted and works within a yoke, Q, which is attached to the rear part of the draught-pole A, and in this yoke there is suspended a rack, R, into which a fixed plate or pawl, *b*, in the bar P, engages, the rack R being suspended in such a position relatively with the pawl that it will, by virtue of its own gravity, engage with the latter, (see fig. 3.)

From the above description it will be seen that the driver, by pulling back the upper end of the lever L, will raise the front end of the plough-beam G, and when the front end or point of the share is raised, the plough will rise or pass upward out of the ground, and will be held upward by the pawl *b* catching into the rack R. When the upper end of the lever L is thrown forward, the front end of the beam G will be lowered, and as the lever L is moved forward a cam, S, on the axis of the lever, will disengage the rack R from the pawl *b* and allow the plough to descend to its work. The plough may be made to work to any desired depth by securing the lever L at the proper point through the medium of the spring-catch M and the perforated segment N. The team is attached to the front end of the plough-beam G, and the draught-pole, when the device is at work, will be balanced, and no undue weight made to bear upon the horses' necks. I would remark that one or more ploughs may be applied to the riding attachment, two on the same beam.

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

1. The attaching of the plough to the draught-pole A of the riding attachment, through the medium of the bell-crank J, rods I K, and lever M, or their equivalents, for raising the front end of the beam, in connection with the suspended rack R and the bar P, jointed or hinged to the draught-pole A, and connected with the plough-beam by the stirrup O, substantially as and for the purpose specified.

2. The cam S on the axis or fulcrum-pin of the lever L, in combination with the suspended rack R and fixed pawl *b*, all arranged substantially as and for the purpose set forth.

3. The axles B B′ projecting from opposite sides of the draught-pole A at different points, and braced by the diagonal bar C, when said parts are used as a riding attachment for a tillage-plough, substantially as and for the purpose specified.

LORENZO DOMINY.

Witnesses.

WILLIAM H. CONARD,

EZRA DOMINY.