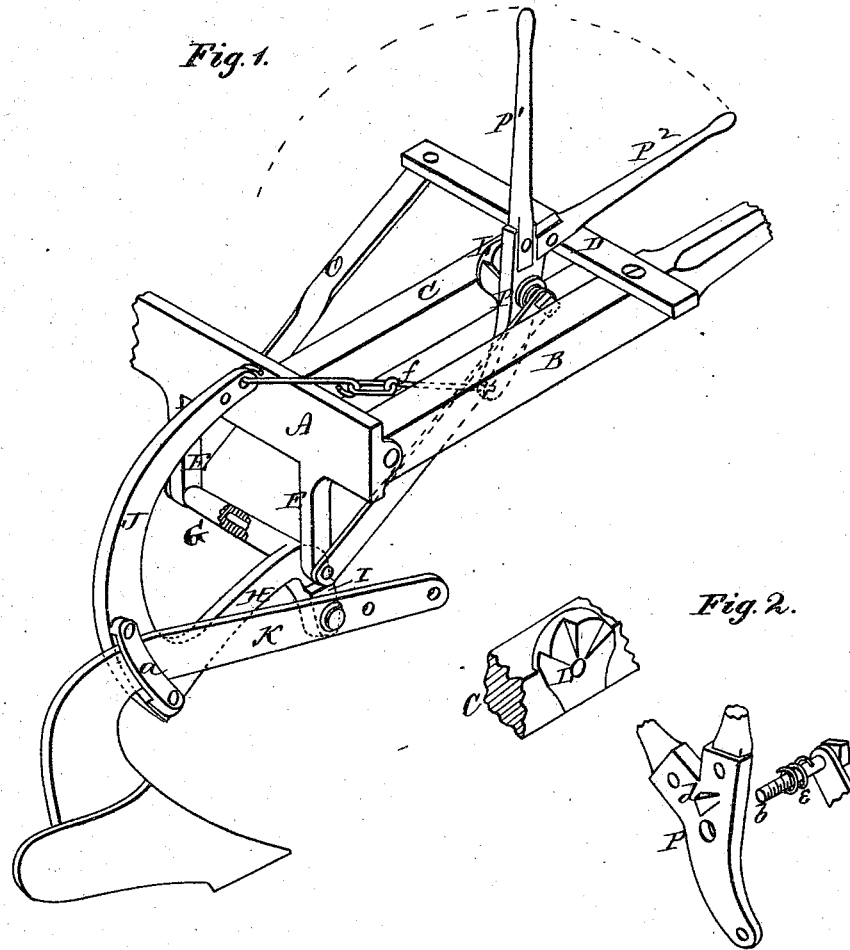


O. OSBORN.  
Sulky-Plow.

No. 162,942.

Patented May 4, 1875.



WITNESSES

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# UNITED STATES PATENT OFFICE.

ORNAN OSBORN, OF TRUMANSBURG, NEW YORK.

## IMPROVEMENT IN SULKY-PLOWS.

Specification forming part of Letters Patent No. 162,942, dated May 4, 1875; application filed February 4, 1875.

*To all whom it may concern:*

Be it known that I, ORNAN OSBORN, of Trumansburg, in the county of Tompkins and in the State of New York, have invented certain new and useful Improvements in Sulky-Plows; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a sulky-plow, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of my improved sulky-plow, and Fig. 2 is a detached view of a part thereof.

A represents the axle-tree, to which the tongue B and bar C are attached, and on top of said tongue and bar the foot-board D is secured. From the axle-tree A extend two parallel arms, E E, downward, between the lower ends of which is pivoted a frame, composed of a sleeve, G, with two arms, H and I, extending from one end at right angles with each other, and the outer end of the long arm H extended upward and forward over the axle-tree, forming the curved arm J. The plow-beam K is pivoted to the lower end of the arm I, and passes through a loop, a, attached to the rear end of the arm H, as shown in Fig. 1. On the inner side of the bar C, near the platform or foot-board D, is secured a ratchet-plate, L, through which passes a bolt, b, and upon this bolt is pivoted a lever, P, which has a tooth, d, on its inner side, to

catch in the ratchet plate or hub L, said lever being held close to said hub by a spring, e, on the bolt. The lower end of the lever is, by a rod or chain, f, connected with the end of the curved arm J. The upper end of the lever is provided with two handles, P<sup>1</sup> P<sup>2</sup>, by means of which the plow is raised by the driver at will. The rear handle P<sup>1</sup> is in right position for the driver to take hold of when the plow is down. The other handle, P<sup>2</sup>, rests forward on the foot-board. When the lever is moved one notch on the ratchet the front handle P<sup>2</sup> rises and takes its place, so that the driver reaches forward and takes this one, making the operation the same as a ratchet. O O are braces extending from the lower ends of the arms E E forward, one to the foot-board and the other to the bolt b, as shown.

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

1. The swinging frame, consisting of the sleeve G, arms H I, and curved arm J, in combination with the plow-beam K, pivoted to the arm I, and held by the loop a, all substantially as herein set forth.

2. The combination of the two-handled lever P, having tooth d, ratchet-hub L, bolt b, spring e, and rod or chain f, with the swinging frame G H I J, having loop a, and the plow-beam K, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 2d day of January, 1875.

ORNAN OSBORN.

Witnesses:

A. J. ABEL,  
J. R. EMERY.