C. MYERS.

Gang-Plows.

No. 158,387. Patented Jan. 5, 1875.

Fig. 1

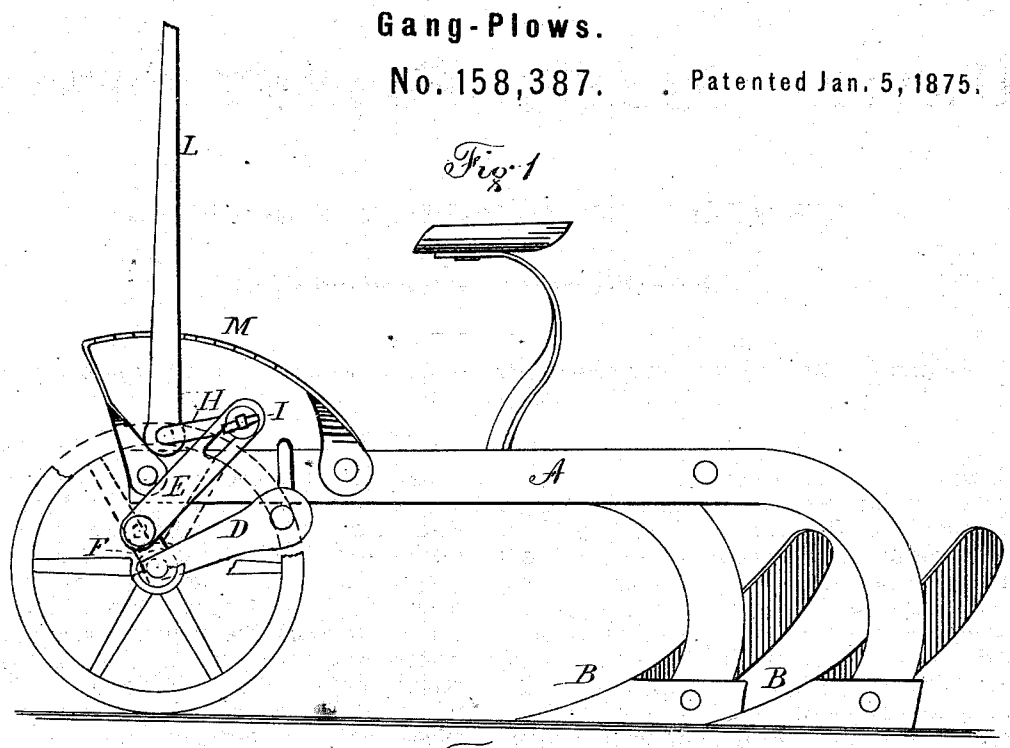
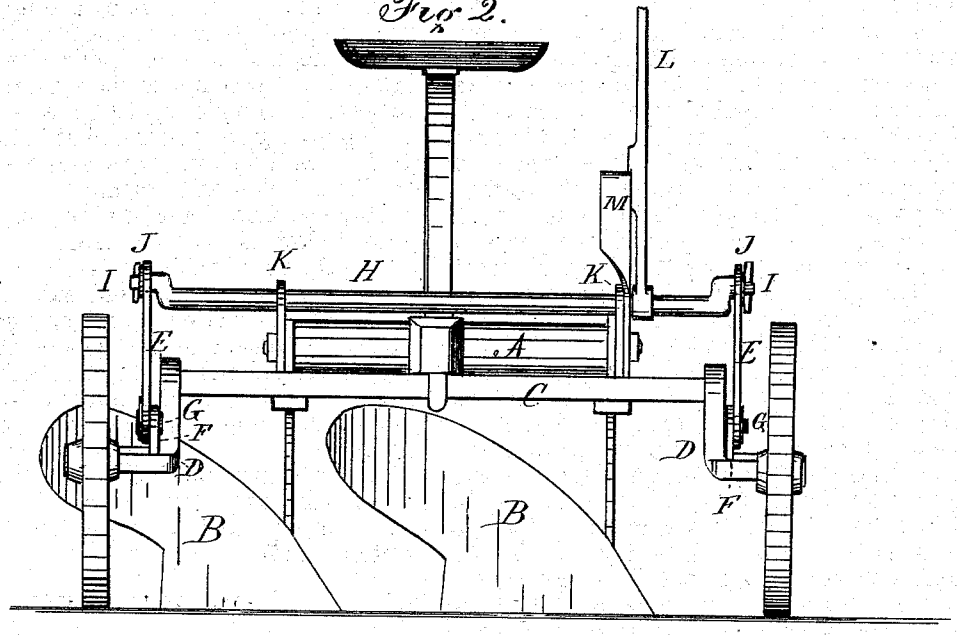


Fig. 2.



Witnesses
S. J. Spalding
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By his Attorney
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UNITED STATES PATENT OFFICE.

CHRISTIAN MYERS, OF MARYSVILLE, CALIFORNIA.

IMPROVEMENT IN GANG-PLOWS.

Specification forming part of Letters Patent No. **158,387**, dated January 5, 1875; application filed October 30, 1874.

To all whom it may concern:

Be it known that I, CHRISTIAN MYERS, of Marysville, in the county of Yuba and State of California, have invented a new and useful Improvement in Gang-Plows; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a side elevation, and Fig. 2 is a front elevation, of a gang-plow embodying my invention.

This invention relates to certain improvements in the hoisting or lifting gear of gang-plows; and consists of a fixed axle provided with articulated crank-journals, connected by straight links to the ends of a double-crank rocking shaft provided with a hand-lever, working in a notched rack secured to the frame of the gang-plow, the object being to produce an arrangement of levers by which the plows can be elevated and depressed with greater facility than by the mechanism heretofore in use.

In the accompanying drawing, A is the frame, to which the plows B and the fixed axle C, provided with the articulated crank-journals D are secured. Links E are secured at their lower ends, by ears F and bolts G, to the crank-journals D, and at their upper ends to the ends of the double-crank rocking shaft H by a key-bolt, I. Both connections of the links E form joints. Washers J are interposed between the key-bolts I and the links E. The double-crank rocking shaft H works in bearings K, secured to the frame A. The hand-lever L is fixed to the rocking shaft H, and a notched rack, M, secured to the frame A, retains the lever L at any desired angle to which it may have been adjusted by the operator.

This arrangement of levers produces the same result, and by it the same force can be exerted, and with as great ease, as by a simple lever of the first kind. A short explanation will make this assertion obvious. The fixed axle C, to which the frame A, &c., is secured, represents the weight to be raised. The wheels of the plow are the fulcrum, and the crank-journals D, links E, double-crank rocking shaft H, and hand-lever L represent, in effect, the simple lever.

It is well known that by a simple lever of the first kind ponderous weights can be raised with ease, and in this application of it to a gang-plow I accomplish the elevation and depression of the plows with great ease.

Depressing the power end of the hand-lever L elevates the plows; a reverse movement of the lever L depresses them.

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

In a gang-plow, the fixed axle C, provided with the articulated crank-journals D, connected by links E to the ends of the double-crank rocking shaft H, provided with the hand-lever L, working in the notched rack M, substantially as and for the purposes hereinbefore set forth.

In testimony that I claim the foregoing improvement, as above described, I have hereunto set my hand and seal this 20th day of October, 1874.

CHRISTIAN MYERS. [L. S.]

Witnesses:
A. SUSS,
SAMUEL GARBER.