

(No Model.)

2 Sheets—Sheet 1.

E. J. LOTZE.
REVERSIBLE PLOW.

No. 573,824.

Patented Dec. 22, 1896.

Fig. 1.

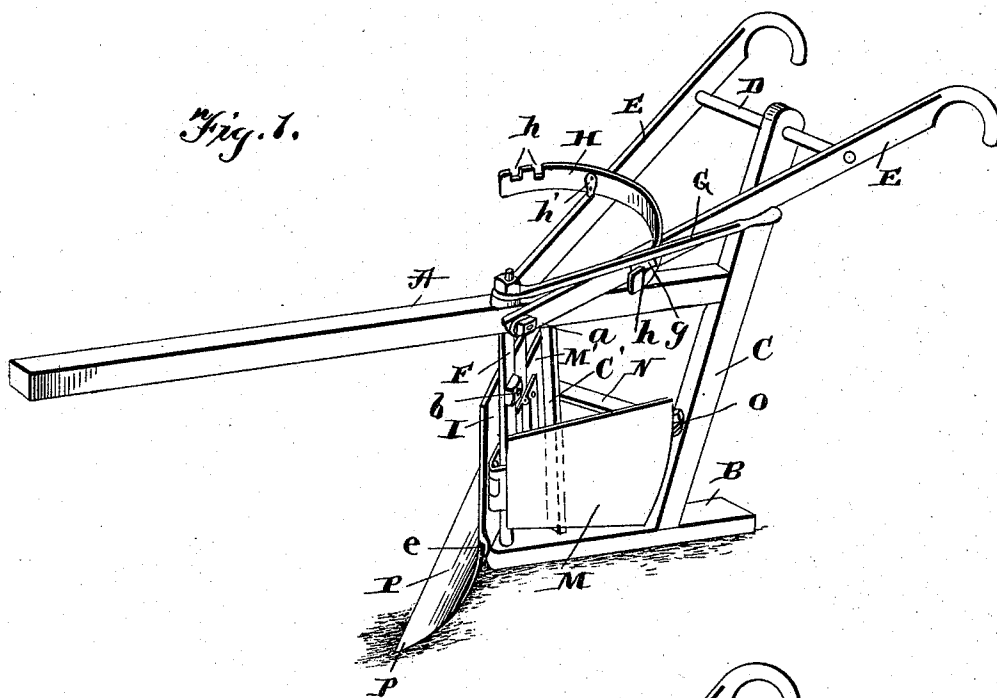
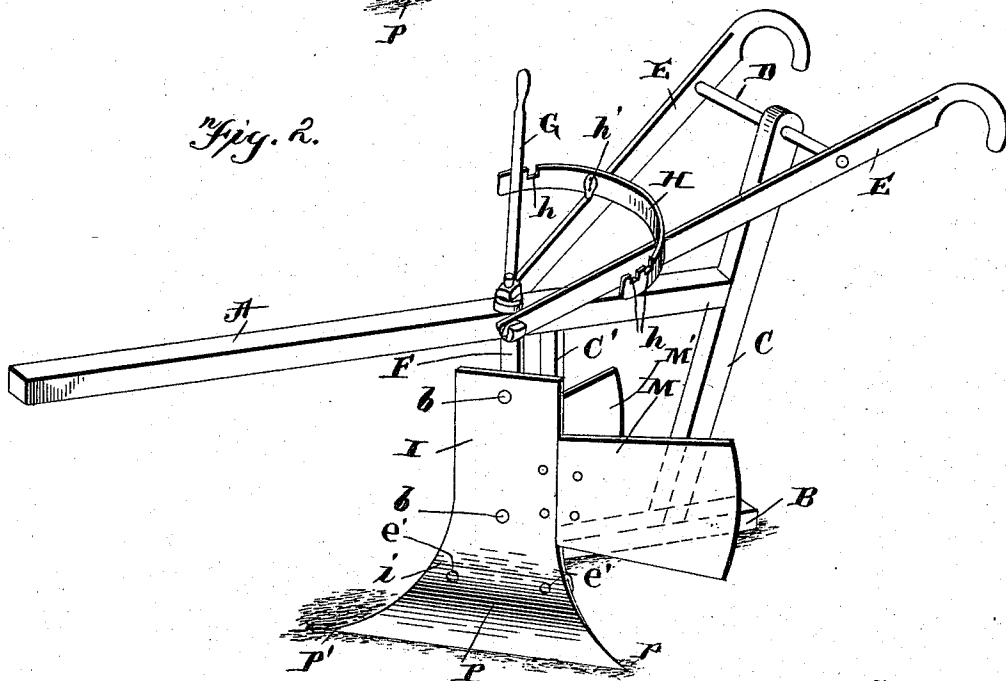


Fig. 2.



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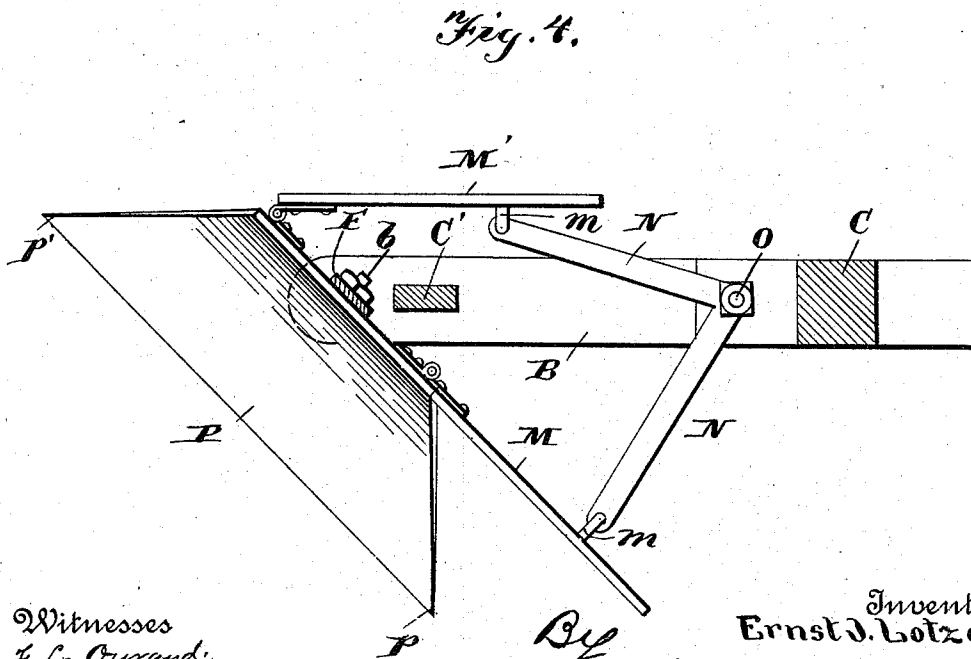
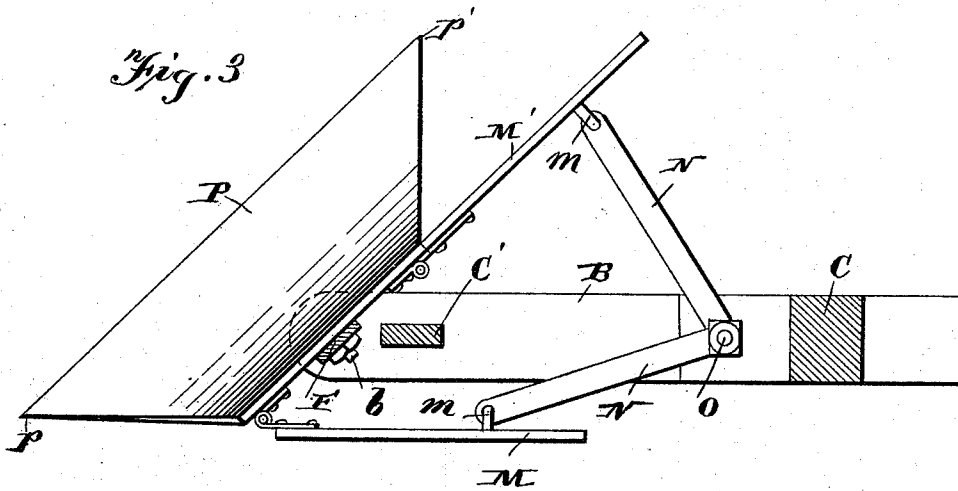
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2 Sheets—Sheet 2.

E. J. LOTZE.
REVERSIBLE PLOW.

No. 573,824.

Patented Dec. 22, 1896.



Witnesses
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UNITED STATES PATENT OFFICE.

ERNST J. LOTZE, OF NORTHPORT, WASHINGTON, ASSIGNOR OF THIRTEEN-THIRTIETHS TO MEYER ABRAHAMS AND J. E. KETCHUM, OF SAME PLACE.

REVERSIBLE PLOW.

SPECIFICATION forming part of Letters Patent No. 573,824, dated December 22, 1896.

Application filed May 9, 1896. Serial No. 590,892. (No model.)

To all whom it may concern:

Be it known that I, ERNST J. LOTZE, a citizen of the United States, residing at Northport, in the county of Stevens and State of Washington, have invented certain new and useful Improvements in Reversible Plows; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to reversible plows, and the object is to provide an agricultural tool of this class for hillside or level plowing, across and back, so that all the furrows will be turned in the same direction without the necessity of returning to the end of the row; and to this end the novelty consists of the construction, combination, and arrangement of the several parts of the same, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same letters of reference indicate like parts of the invention.

Figure 1 is a view in perspective of my improved plow adjusted to turn the furrow to the right-hand side. Fig. 2 is a similar view taken from the same point, showing the plow adjusted to turn the furrow to the left-hand side. Fig. 3 is a top plan view taken on a section-line immediately below the beam of the position of the parts as they appear in Fig. 1, and Fig. 4 is a similar view showing the position of the parts as they appear in Fig. 2.

A is the beam, B the shoe, and C the standard connecting the beam and shoe and extending above said beam to form a support for the cross-brace D, secured to the handles E E, the forward ends of which are secured by a bolt *a* to the beam, as shown, and the shoe B is further braced to the beam A by a shorter standard C', rectangular in cross-section and located near the front end of said shoe and rigidly connecting it to said beam A.

An upright oscillating shaft F has its lower end journaled in a bearing in the front end of the shoe B, and it extends upwardly a short distance through the beam A, where its end is provided with a hand locking-lever G, pro-

vided about midway of its length with a rigid depending pawl *g*, adapted to engage one or the other of the recesses *h* in the semicircular rack H, which is secured on top of the handles by studs *h'* and adapted to lock the lever at either end of the rack. Removably, though rigidly, secured by countersunk head-bolts *b b* to said upright shaft F is the plowshare I, so as to turn to the right or left with said shaft when the latter is moved by the lever G, and on each side of said share is hinged the forward end of the moldboards M M', so as to swing freely thereon in a horizontal manner. The inner face of these moldboards M M' is provided with an angular bracket *m*, to which is pivoted a pitman N, and the rear end of each of these pitmen N meet at a common point and are pivotally secured to the standard C by an angular bolt O.

The lower end *i* of the share I is provided with an integral seat *e*, to which is removably secured by bolts *e'* the double point P, so that its face at the junction of the share is flush, and the heads of the bolts *e* are countersunk, so that they also will be flush with the face of the point and share, the whole presenting a smooth surface to the furrow; and when the plow proper is adjusted, as shown in Fig. 1, the extreme end *p* of the point P becomes the plow-point proper, the other end *p'* extending rearward and forming a continuation of the share, while if the position of the share be reversed, as shown in Fig. 2, the end *p'* becomes the point proper and the other end *p* becomes the continuation of the share.

Referring to the hinged moldboards M M', when adjusted as seen in Fig. 1 the moldboard M' becomes the moldboard proper and the moldboard M forms the landside for the time being, their position being reversed each time the lever G is moved to the right or the left.

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

In a reversible plow, consisting of the beam A, standards C and C' and the handles E E, upon which is mounted the semicircular rack H, having locking-recesses *h*, in combination with the vertical oscillating shaft F, the up-

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per end of which is provided with a hand-
lever G, having a rigid pawl *g*, and the oscil-
lating share I, having a removable double-
ended point P, and the linged moldboards
5 M M', provided with pitmen N, pivoted to a
common bolt O on the standard C, substan-
tially as and for the purpose specified.

In testimony whereof I hereunto affix my
signature in presence of two witnesses.

ERNST J. LOTZE.

Witnesses:

D. T. C. BIRD,
C. RUST.