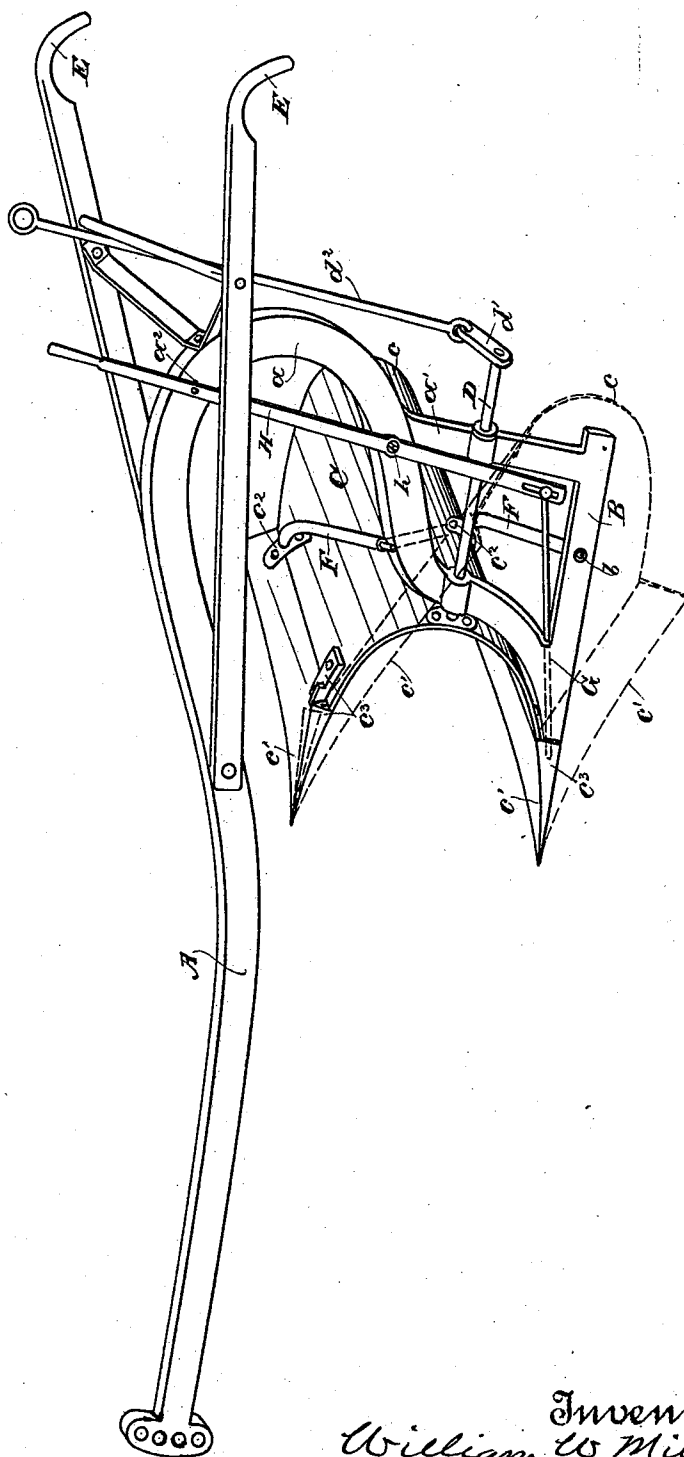


(No Model.)

W. W. MILLER.
REVERSIBLE PLOW.

No. 516,743.

Patented Mar. 20, 1894.



Witnesses,
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UNITED STATES PATENT OFFICE.

WILLIAM W. MILLER, OF NOYO, CALIFORNIA.

REVERSIBLE PLOW.

SPECIFICATION forming part of Letters Patent No. 516,743, dated March 20, 1894.

Application filed July 3, 1893. Serial No. 479,515. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. MILLER, a citizen of the United States, residing at Noyo, Mendocino county, State of California, have invented an Improvement in Reversible Plows; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to that class of reversible plows in which a double mold-board is mounted upon a horizontal axis whereby it may be turned through an arc in a vertical plane to fit the stationary land-side at either limit of its movement.

My invention consists in the novel construction of the double mold-board and share, and the means for mounting, turning and locking it, as I shall hereinafter fully describe.

The object of my invention is to provide a reversible plow which is not only adapted for use on side hills, but is equally adapted for use on level ground, thus providing one implement capable of perfect use in either or both situations.

Referring to the accompanying drawing for a more complete explanation of my invention,—the figure is a perspective view of my reversible plow.

A is the plow-beam having a downwardly bent rear extension a which has connected or formed with it the fixed land-side B.

C is the mold-board. This consists of a concaved piece having a rear extension c and forwardly projecting share extremities c' , the counterpart of each other. These share extremities are preferably separate pieces as is customary, and they are secured to the mold-board by straps c^2 on the back, one of said straps on each side being extensions of the stops c^3 of the shares. This concaved piece C, as far as general shape is concerned, is practically two level-land mold-boards joined together, each half of the single mold-board serving its full purpose as an ordinary plow, thereby adapting the plow for perfect use on level land, the earth being turned by it completely over as with an ordinary level-land plow, thereby distinguishing it and its result from the usual side-hill plow, the effect of which on level-land is merely to stand the earth on end

and not to turn it over. This combined mold-board has secured to its back, at a point in the front of its horizontal central plane, a horizontal axis or shaft D which is mounted in the lower end of the rear extension a of the beam, and in a vertical standard a' extending between the beam and land-side. Said shaft can rock in its bearings and it has at its rear end a crank d' by which it may be turned, by the manipulation of a pull rod d^2 extending upwardly and resting between the handles E.

The width of the mold-board is such that by reason of the position of its axis, it is enabled to turn under the beam through a vertical arc from a vertical position on one side to a vertical position on the other side, and in each position its point or stop c^3 fits the extremity of the land-side.

Arms F project from the back of the mold-board and each is adapted to engage with a hole b in the land-side to steady and brace the mold-board.

To hold the mold-board and lock it in position, there is a locking pin G, the forward end of which passes through the front extremity of the land-side, and is adapted to enter a socket in the stop c^3 of the share extremity. This pin is projected and retracted by means of a lever H, with the lower end of which it is connected, as shown. The lever is pivoted at h to the plow beam, and it is held in position by means of a small hole in its under side which is sprung over a small pin a^2 on the beam.

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

1. In a reversible plow, the combination of a beam, a land-side carried by said beam at its rear end, a horizontal axis or shaft mounted in the beam above the land-side, and the laterally concaved plow bottom consisting of the mold-board and duplicate opposing share extremities, said mold-board being secured to the forward end of the axis or shaft in its horizontal central plane, and its share extremities having stops adapted to overlie and fit alternately the front extremity of the land-side and present a smooth and uninterrupted surface, substantially as herein described.

2. In a reversible plow, the combination of
a beam having a down-turned rear extremity,
a land-side secured thereto and a standard
between said land-side and extremity, a hori-
5 zontal axis or shaft mounted in the beam
extremity and standard, the laterally con-
caved plow bottom, consisting of the mold-
board secured to the axis or shaft, and du-
plicate opposing share extremities, and the
10 arms F of the mold-board adapted to alter-
nately engage sockets in the land-side, sub-
stantially as herein described.

3. In a reversible plow, the combination of
the beam and land-side, the concaved mold-
15 board and duplicate opposing share extremi-
ties having socketed stops, said mold-board
being mounted and adapted to turn on a hori-
zontal axis, and the means for locking and
relieving the mold-board, consisting of the
20 pin seated in the land-side and adapted to be
projected into and withdrawn from the sock-
eted stops of the share extremities, and the
pivoted lever connected with and operating
said pin, substantially as herein described.

4. In a reversible plow, the combination 25
with the beam and the land-side, the con-
cave mold board and duplicate opposing
share extremities having socketed stops, said
mold board being mounted and adapted to
turn on a horizontal axis, a rod G having a 30
sliding engagement with the land-side and
with its free end adapted to engage the mold
board and lock it to the land-side, a lever
pivoted to the beam for operating said rod,
socketed stops carried by the opposing share 35
extremities, arms F secured to the opposing
sides of the mold-board and adapted to al-
ternately engage sockets in the sides of the
land-side, and a pull rod and crank for rotat-
ing said mold board, substantially as herein 40
described.

In witness whereof I have hereunto set my
hand.

WILLIAM W. MILLER.

Witnesses:

S. H. NOURSE,
J. A. BAYLESS.