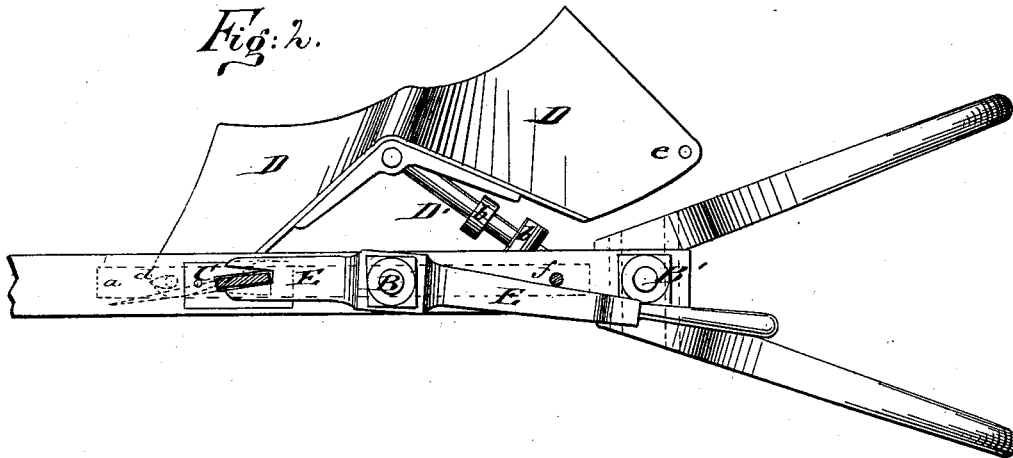
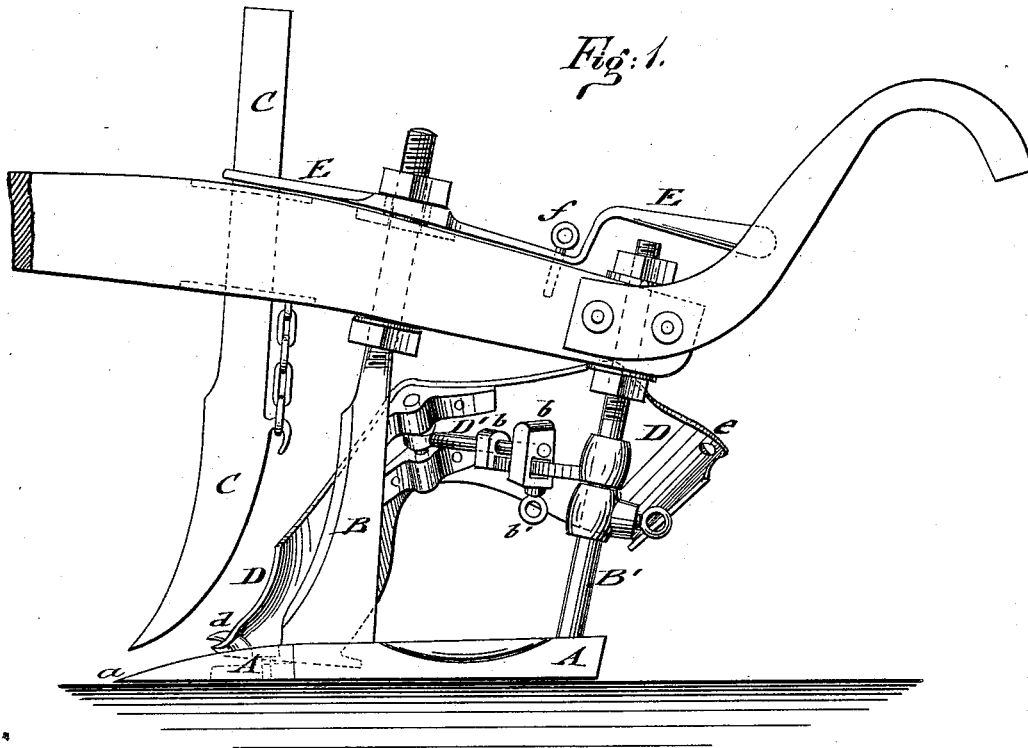


P. BOUCHET.  
Reversible Plow.

No. 199,954.

Patented Feb. 5, 1878.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

PETER BOUCHET, OF NEW YORK, N. Y.

## IMPROVEMENT IN REVERSIBLE PLOWS.

Specification forming part of Letters Patent No. **199,954**, dated February 5, 1878; application filed December 18, 1877.

*To all whom it may concern:*

Be it known that I, PETER BOUCHET, of the city, county, and State of New York, have invented a new and Improved Reversible Plow, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation of my improved reversible plow, and Fig. 2 a top view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved construction of reversible or side-hill plow, by which the furrow-slice may be turned to the right or left, as desired, and thereby the plow used while traveling in both directions.

The invention consists of a duplex share and mold-board that is made in one piece symmetrically to their center joint, swiveled centrally to an adjustable supporting brace or arm, and locked by perforations at both points to a fixed hook of the point of the land-side. The colter is adjusted to either side of the point of the land-side by a forked lever at the top of the beam, to correspond to the position of the duplex share and mold-board at the right or left of the land-side.

Referring to the drawing, A represents the land-side, which terminates in a sharp point, *a*, of certain width. The land-side A is rigidly attached to two standards, B B', that connect the beam and land-side. The front standard B is sharpened at the front side, back of the colter C, to assist in the vertical cutting of the furrow-slice. The colter C is hung to the beam by a chain, brace, or other device at a suitable distance from the point.

A double share and mold-board, D, of symmetrical construction to its center or joint, is centrally hinged to an adjustable arm or brace, D', that is supported at suitable height on the rear standard B'.

The brace is made of two arms, of which one is applied by a sleeve to the standard B', the other made to turn in fixed perforated bearings *b* at the end of each part. The bearing of the outer arm slides along the inner arm, and may be clamped thereto by a set-screw, *b'*, nearer to or farther from the standard.

The joint action of the hinge-connection of

the duplex share and mold-board with the brace and of the turning of the outer brace-arm on the inner arm produces a swivel motion, by which the share and mold-board may be readily swung from one side of the land-side back of and around the rear standard to the other side of the land-side. The adjustability of the brace also admits the setting of the mold-board at a greater or less angle of inclination, so as to regulate the throw of the slice.

A fixed center hook, *d*, of the land-side, back of the point of the same, enters a perforation or socket-eye, *e*, at either end point of the duplex share and mold-board, and serves to lock the same, in connection with the brace, rigidly into position at either side of the land-side.

The colter C is made adjustable by a hand-lever, E, with forked front end, that is fulcrumed to front standard B, and secured by a pin, *f*, and socket-holes of the beam, to either side of the point *a*, so as to give it the proper position to the share in the line of draft. The share locks to the hook back of the colter, intermediately between colter and front standard, being readily secured without interfering with the same. When the plow arrives at the end of the furrow in one direction, the duplex share and mold-board is released from the hook and thrown around the vertical rear standard to the other side, and then attached again to the hook. The colter is then changed to the corresponding position with the share and the plow B, ready to return in opposite direction, throwing the furrow-slice toward the same side as before.

The duplex share and mold-board and the method of swiveling and locking the same form the essential features of my reversible plow.

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

1. In a reversible or side-hill plow, the combination of the land-side and adjustable colter with a swiveled duplex share and mold-board, adapted to swing around a vertical rear standard and lock to the point of the land-side, substantially as and for the purpose specified.
2. The combination of the land-side, having

point and locking-hook, with a duplex share and mold-board having perforated points, and being hinged to a swivel-brace of the rear standard, substantially as and for the purpose specified.

3. The combination of the land-side having fixed locking-hook, and of an extension swivel-brace of the rear standard, with a duplex share

and mold-board hinged to said brace, and adapted to swing around the rear standard from one side to the other for changing direction of plow, substantially as specified.

PETER BOUCHET.

Witnesses:

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