

A. SERVEL.
 ADJUSTABLE, REVERSIBLE RIGHT AND LEFT HAND PLOW.
 APPLICATION FILED APR. 10, 1909.

1,044,824.

Patented Nov. 19, 1912.

Fig. 1

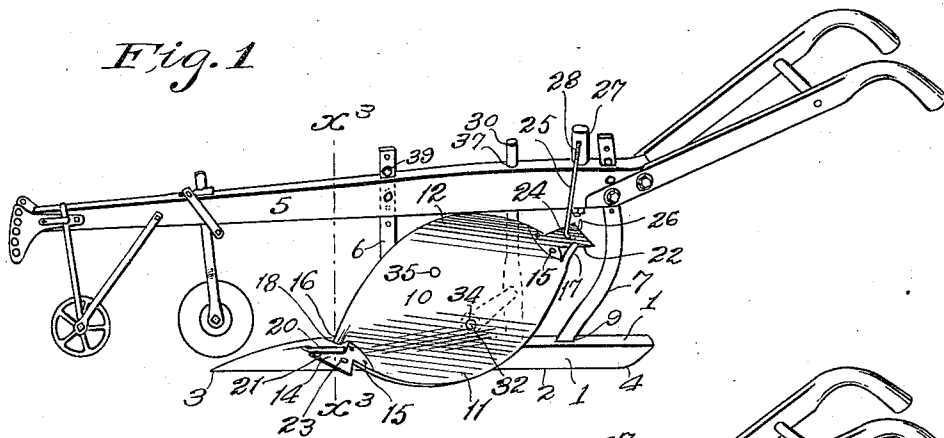


Fig. 2

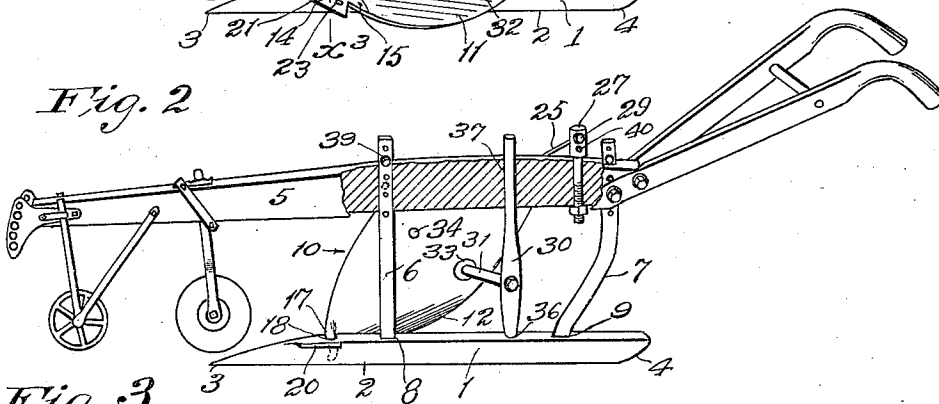


Fig. 3

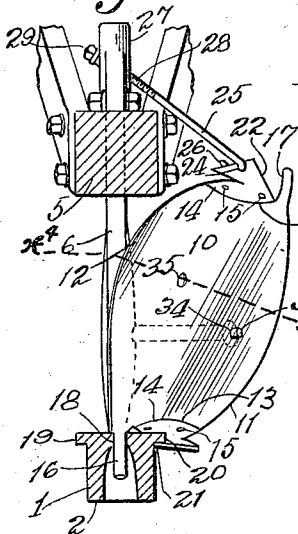


Fig. 4

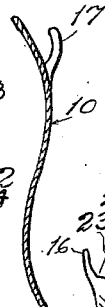


Fig. 6

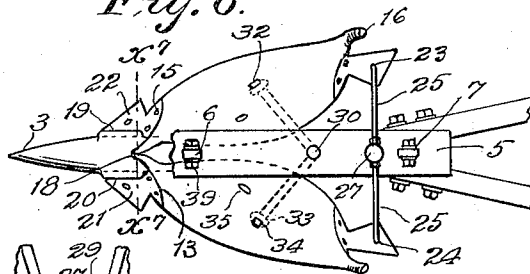


Fig. 7

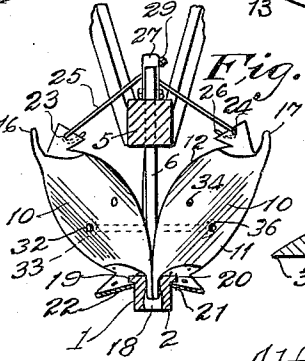
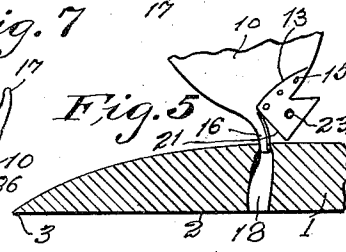


Fig. 5



Witnesses
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UNITED STATES PATENT OFFICE.

ALFRED SERVEL, OF TEMECULA, CALIFORNIA.

ADJUSTABLE, REVERSIBLE RIGHT AND LEFT HAND PLOW.

1,044,824.

Specification of Letters Patent.

Patented Nov. 19, 1912.

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To all whom it may concern:

Be it known that I, ALFRED SERVEL, a citizen of France, residing at Temecula, in the county of Riverside and State of California, have invented a new and useful Adjustable, Reversible Right and Left Hand Plow, of which the following is a specification.

The object of this invention is to provide a plow capable of being used to throw a land either to the right-hand side, or to the left-hand side, or toward both sides at once. Also to provide for increasing or decreasing the dip of the plow,—that is to say, its tendency to run deep or shallow.

The accompanying drawings illustrate the invention.

Figure 1 is a view of a plow constructed in accordance with this invention and arranged as a left-hand plow. Fig. 2 is a view of the plow partly in section, the mold-board being reversed to fit the plow for use as a right-hand plow. Fig. 3 is a fragmental, sectional elevation from line x^3 , Fig. 1, showing the mold-board intact. Fig. 4 is a sectional view of the mold-board on line x^4 , Fig. 3, looking in the direction of the arrow. Fig. 5 is a fragmental, sectional detail showing the front end of the land-side bar in section, and a fragment of the mold-board in the first stages of being inserted. Fig. 6 is a fragmental view of the plow provided with two mold-boards. Fig. 7 is a fragmental detail of the same in section on line x^7 , Fig. 6.

The land-side of the plow is formed by a bar 1 having a straight flat bottom 2 extending from the point 3 to the rounded heel 4. Said land-side bar is connected with the beam 5 by standards 6, 7, set into seats 8 and 9 respectively, and fastened therein by any well-known means. The mold-board 10 is reversible for this purpose, being a bent plate formed alike upon each end; having at one end a curved portion 11 that forms a concave surface upon one side and a convex surface on the other side, and a curved portion 12 at the other end that forms a convex surface upon the one side and a concave surface upon the other side.

At each extreme end of the mold-board there is formed a seat 13 for a plow-point 14 which may be secured thereto by any suitable means, as the rivets 15; and there

is also provided at the ends of the mold-board, studs 16 and 17.

The land-side bar is provided near its front end with a socket 18 adapted to receive the studs 16 and 17 separately, and is also provided on its opposite edges with seats 19 and 20 adapted to be engaged by the forwardly-projecting catches 21 and 22 of the mold-board adjacent the studs 16 and 17 thereof. Said catches 21 and 22 may be formed of a single piece with the mold-board, or may be riveted thereto. In the drawings they are shown as being formed by portions of the plow-shares which are riveted to the mold-board.

At the ends of the mold-board there are provided seats 23 and 24 for a stay 25 which may have a hook 26 inserted through the stay-seat that is at the upper end of the mold-board. Said stay 25 may be swiveled to the plow-beam by a swivel-post 27, and may have a screw-threaded portion 28 at its end to insert through the swivel and to be secured by a nut 29 which can be adjusted to draw the upper end of the mold-board toward the plow-beam.

30 is a brace having an arm 31 adapted to engage the inner face of the mold-board to support the same against the thrust of the land. Said brace may be provided with a tenon 32 and a shoulder 33, and the mold-board may be provided with holes 34, 35, to receive the tenon 32 in the different positions of the mold-board.

When the mold-board is to be put into place it will be brought upward and forward, as indicated in Fig. 5, so as to insert one of the studs, as 16 or 17, into the socket 18. Said studs project at an angle from opposite sides of the mold-board, being in each instance an extension of the edge of the mold-board to which it appertains; such extension being directed downwardly and backwardly relative to its plow-share when said plow-share is in position for use, so that the catches 21 and 22 will come underneath their seats 19 and 20 when their studs respectively are in the socket therefor, and the mold-board has been brought back against the brace with the tenon inserted into the appropriate hole.

The brace 30 is preferably pivotally mounted in the seat 36 in the bar and the seat 37 in the beam, so that when the mold-

board is to be shifted from one to the other side of the plow the brace 30 may be turned to bring its arm 31 into position to receive the mold-board thus changed.

- 5 When the mold-board and the brace are properly adjusted the stay will be hooked into its seat in the upper end of the mold-board, and will be drawn taut by adjusting the nut 29. The swivel-post 27 may be
10 turned to bring the stay 25 onto the appropriate side of the beam. The front standard 6 may be slidable up and down through the beam 5, and may be secured in place by any suitable means as the pin 39. The brace
15 30 may also be slidable up and down in the plow-beam, and likewise the standard 7; the latter being adjustably held by a bolt.

The swivel-post 27 may be adapted by the hole 40 to receive a stay corresponding to
20 the stay 25, and two mold-boards may be provided each having studs that can be simultaneously accommodated in the socket 18, and in that case the two mold-boards may be applied to the plow, thus making a
25 double right and left hand plow.

To increase the dip of the plow, the standard 6 may be moved down through the beam, and to decrease such dip the standard may be moved up through the beam, thus
30 giving different inclinations to the land-side bar relative to the beam.

I claim:—

1. A plow provided with a land-side bar which has at its front end a socket, stand-
35 ards connecting the bar with the beam of the plow, a mold-board provided with a share and having adjacent the share a stud to fit in said socket, and means for supporting the upper end of the mold-board.

40 2. In a plow, a reversible mold-board consisting of a bent plate reversely concavo-convex at its opposite ends; having at one end a curved portion that forms a concave surface upon one side and a convex surface
45 on the other side, and a curved portion at

the other end that forms a convex surface upon the one side and a concave surface upon the other side.

3. In a plow, the combination of a land-side provided at its front end with a seat 50 and a socket, a mold-board provided with a catch to fit the seat and with a bent stud to engage the socket, said bent stud being adapted to enter the socket while the catch is rearward from its seat and to engage said
55 socket to prevent withdrawal when the catch engages its seat, and means to hold the mold-board in position with the bent stud in the socket and the catch engaging the seat.

4. In a plow, the combination of a land- 60 side provided at its front end with a seat and a socket, a mold-board provided with a catch to fit the seat and with a bent stud to engage the socket, said bent stud being adapted to enter the socket while the catch 65 is rearward from its seat and to engage said socket to prevent withdrawal when the catch engages its seat, and a brace and a stay to hold the mold-board in position with the bent stud in the socket and the catch engag- 70 ing the seat.

5. A plow provided with a post swiveled in the beam of the plow and in the land-side, a reversible mold-board reversely concavo-convex at opposite ends, a land-side adapted 75 to hold the lower end of the mold-board by a curved stud at either side of the land-side, a straight brace to support the middle of the mold-board at either side of the plow, and a detachable stay carried by the swivel-post 80 and adapted to hold the mold-board against the brace in either of its positions.

In testimony whereof, I have hereunto set my hand at Los Angeles, California, this 31st day of March, 1909.

ALFRED SERVEL.

In presence of—

JAMES R. TOWNSEND,
M. BEULAH TOWNSEND.