

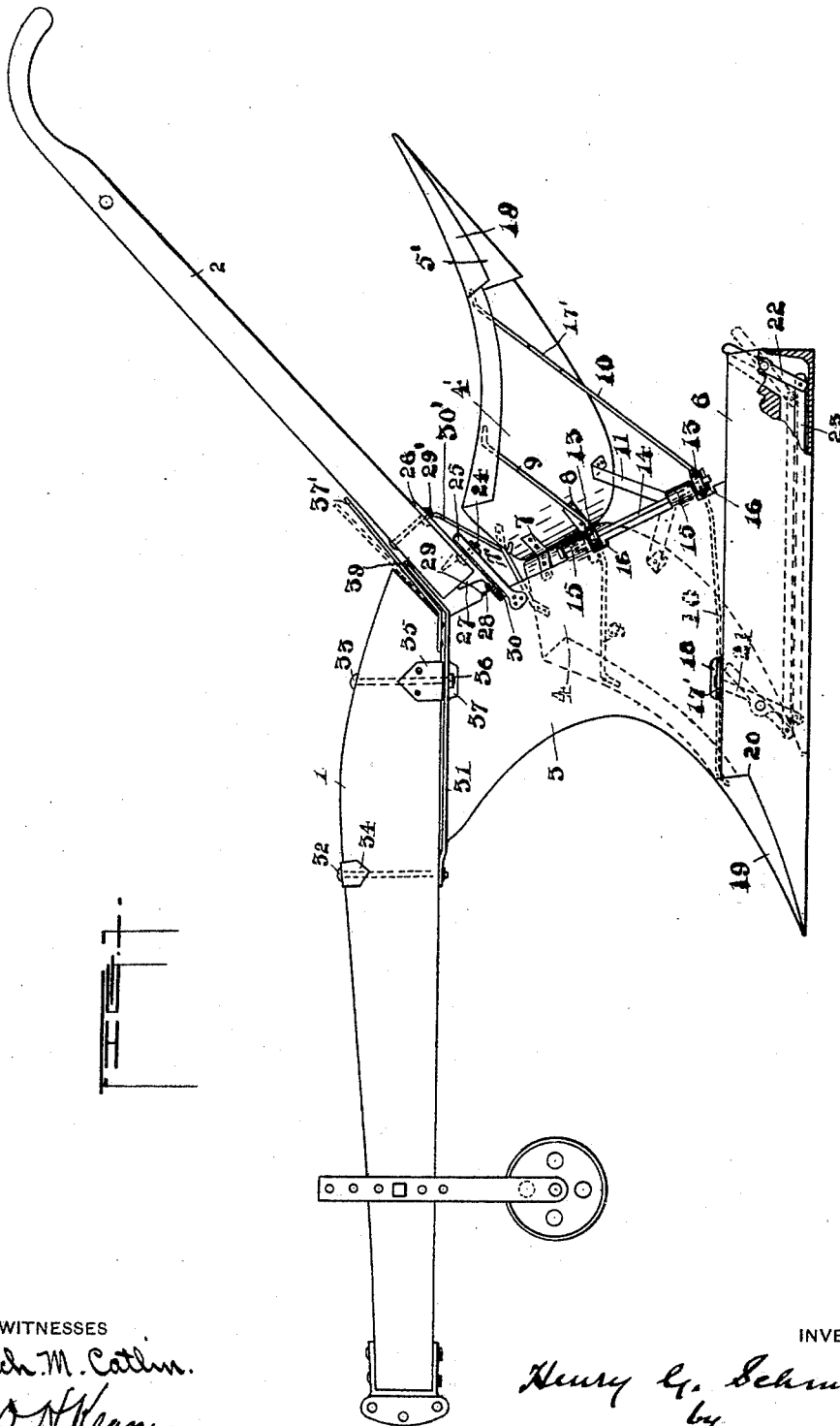
(No Model.)

2 Sheets—Sheet 1.

H. G. SCHMITT.
PLOW.

No. 491,599.

Patented Feb. 14, 1893.



WITNESSES
Arch. M. Catlin.
O. N. Kean.

INVENTOR
Henry G. Schmitt
by
Benj. R. Catlin atty

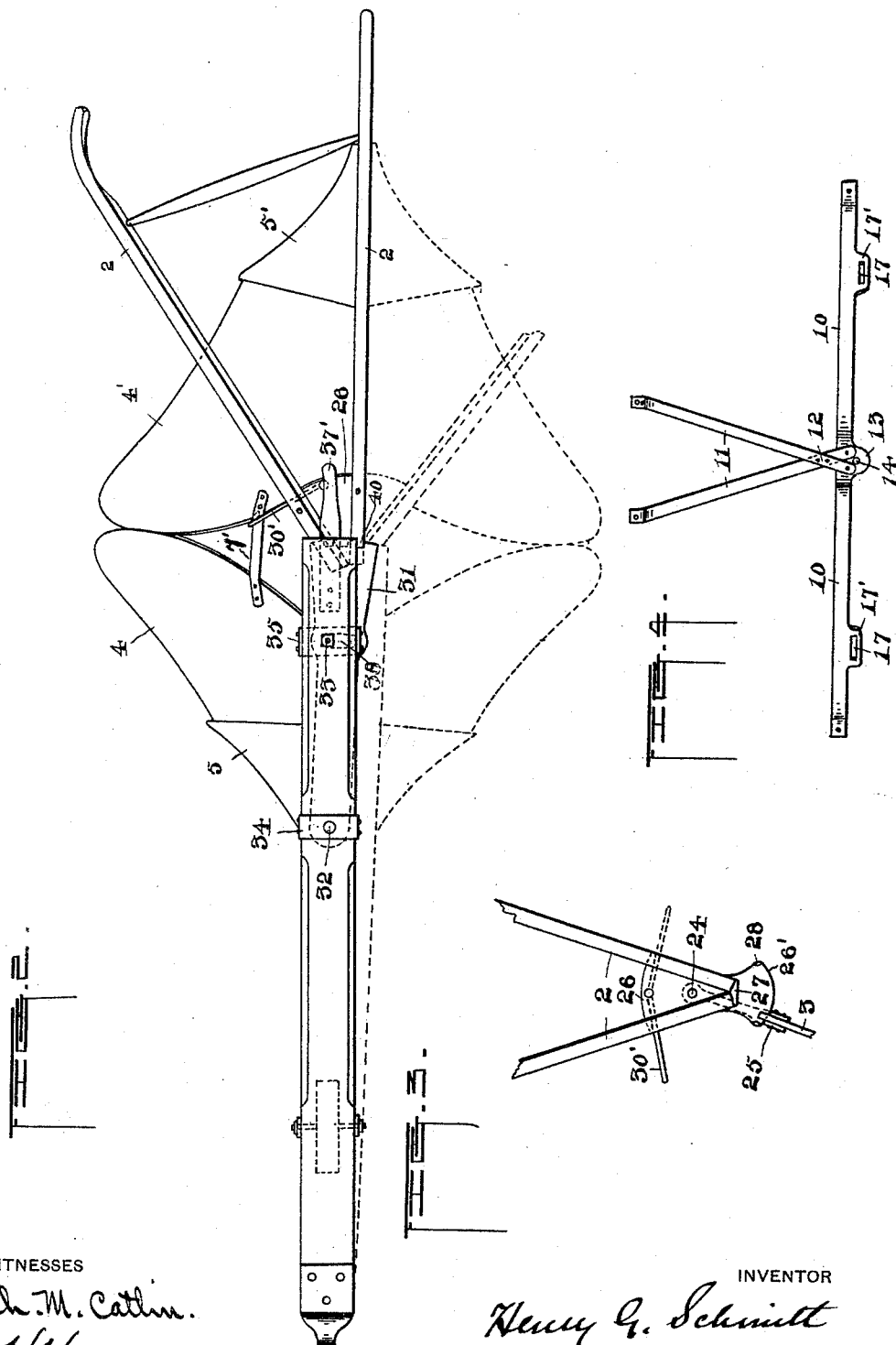
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UNITED STATES PATENT OFFICE.

HENRY G. SCHMITT, OF HENDY CREEK, NEW YORK.

PLOW.

SPECIFICATION forming part of Letters Patent No. 491,599, dated February 14, 1893.

Application filed April 9, 1892. Serial No. 428,488. (No model.)

To all whom it may concern:

Be it known that I, HENRY G. SCHMITT, of Hendy Creek, in the county of Chemung and State of New York, have invented certain new and useful Improvements in Plows; and I do hereby 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 pertains to make and use the same.

The invention relates to what are known as side hill plows, though it is adapted and intended to run on level ground, and its object is to increase simplicity of construction, strength, efficiency of operation and ease of manipulation in plows of this class.

The invention consists in the construction hereinafter described and particularly pointed out.

In the accompanying drawings: Figure 1 is a side elevation. Fig. 2 is a plan. Fig. 3 is a plan of a detail and Fig. 4 is a bottom plan of moldboard braces.

Numerals 1 indicates the beam of a plow, 2 the handles, 3 the standard, 4 4' the mold boards, 5, 5' the plow points and 6 the landside or standard foot. The mold boards are relatively arranged and joined by plates 7 and 8 bolted thereto as indicated in the drawings. They are further tied together and braced by the bent bars 9 and 10 and the central part of the latter is connected to the upper end of each mold board by braces 11 which cross each other and are fastened together at 12. These braces 9 and 10 which are shown in full lines in Fig. 4, and in Fig. 1 partly in full and partly in dotted lines are provided with extensions 13 through which passes the hinge pintle 14. Corresponding extensions or lugs 15 attached to or preferably formed with the standard also receive the pintle and together with the other parts named constitute a hinge connection between the double mold board and the inclined rear edge of the standard. 16 indicates recesses in the standard adapted to receive the lugs or extensions 13.

17 indicates slots formed one in each of two lateral extensions 17' of the brace 10. The double mold board turns on its hinge and permits one or the other of these extensions to enter a slot 18 formed in the standard. At such time the mold board fits the standard and the vertical part of the plow point fits the

notch 20 formed in the landside or standard foot. They are locked in such position by means of two pivoted levers 21 and 22 pivotally connected by a rod 23, and all situated in the hollow interior of the landside, the construction and arrangement being such that when the free end of lever 22 is raised the free end of lever 21 will also be raised and will enter a slot 17 in the brace 10, if in proper position, thus locking the mold board against the landside, the unlocking being effected by a reverse movement of the levers.

Lever 21 pivoted at the rear of the landside can be suitably raised to lock the plow by pressing the foot against the underside of the lever which may be conveniently done when the heel is on the ground. It can also be conveniently reversed by the foot.

The handles are made adjustable in order to throw them over the center of gravity by means of a pivot 24 adapted to turn in a bracket or arm 25, formed on or secured to the standard.

26 is a plate provided with a shoe 27, having an extension or foot provided with stops 28. Shown in Fig. 3. The edge of the foot 26 of said plate is adapted to move back and forth laterally in the slot or space 50 provided between a lug 29 and bracket 25. (See Fig. 1.) The extent of the lateral movement in each direction is limited by one of the stops 28. The handles each has its foot in the shoe 27 made fast to plate 26 which latter is further secured to the handles by bolts 29' thrown to the right or left according to the position of the double mold board, and are secured in operative position over, or nearly over, the center of gravity by a hook 30' which has the proper length to engage the connecting bar 7' at its junction with the mold board. Thus when the mold board and handles are both moved to their extreme position on the same side, the hook will just catch over and hold the brace at its nearest end and at such time the adjacent stop 28 prevents further movement of the plate 26 and the handles secured thereto. Upon the top of the standard is secured integrally or otherwise a beam pillow or beam supporting plate 31.

32 and 33 indicate screw bolts whereby the beam is fastened to the plate.

34 and 35 indicate straps adapted to protect the wood from wear by the bolts.

37 is a slot in the standard to permit the securing in position of bolt 33, and nut 36.

5 37' denotes a handle secured to the beam. The plate 31 is slotted at 38 (see dotted lines Fig. 2) to permit the rear of the beam to be moved about bolt 32. This operation is effected by the handle 37' which extends up
10 within easy reach of the plowman.

39 indicates a catch and 40 notches adapted to receive said catch. The handle may be made sufficiently elastic to provide for the disengagement of the catch when the beam
15 is adjusted by its means, and also to insure its return to a notch when released. The particular form of spring catch is not however essential. The object of the device just described is to provide for the adjusting of the
20 angle of the line of draft to the mold board and its point, whereby the width of the furrow may be varied.

Having thus described my invention, what I claim is:

25 1. In a double mold board plow, the plate 26 pivotally supported on the standard and provided with stops 28, said stops being adapted to engage the standard and said plate being movable independently of the beam, and
30 the handles fast on said plate combined with devices for locking them in different positions with respect to said standard and beam, consisting of a hook 30' and connecting bar 7'; substantially as set forth.

35 2. In combination the laterally adjustable plow beam, the beam pillow 31 having an upturned end provided with notches 40 and the spring lever handle 37' provided with a catch 39 adapted to be engaged with any one of said
40 notches, said handle being adapted to move the plow beam independently of the plow handles and to operate the catch; substantially as set forth.

45 3. In combination the laterally adjustable plow beam, the standard having notch 37 to give access to nut 36 on bolt 33, the beam pillow 31 having an upturned end provided with notches 40 and the spring lever handle 37' provided with a catch 39 adapted to be engaged with any one of said notches whereby
50 the beam can be moved and locked; substantially as set forth.

4. The double mold board having parts connected by the plates 7 and 8, and by bars or braces 9 and 10 adapted to receive the hinge
55 pintle, brace 10 being further connected to each mold board by a brace 11 extending from near the middle of said brace 10 to near the upper joined ends of two plow boards; substantially as set forth. 60

5. In combination the double mold board having its parts connected by bent bars 9 and 10, said bars being provided with lugs or hinge extensions to receive a pintle in combination
65 with the standard having similar lugs or extensions and provided with slots to receive the bar lugs, and the hinge pintle, the upper joined ends of the double mold board being connected by braces 11 with brace 10 near its hinge; substantially as set forth. 70

6. The combination of the standard having a slot 18, the landside, the hinged double mold board having bar 10 provided with slots 17 and a locking device adapted to enter either
75 slot 17 and lock the mold board against the standard; substantially as set forth.

7. The combination of the standard having a slot 18 the landside, the hinged double mold board having bar 10 provided with slots 17 and a locking device adapted to enter either
80 slot 17 and lock the mold board against the standard, said device consisting of the two pivoted bars and connecting rod; substantially as set forth.

8. The combination of the standard having
85 a slot 18 the landside, the hinged double mold board having bar 10 provided with slots 17 and a locking device adapted to enter either slot 17 and lock the mold board against the standard, said device consisting of the two
90 bars pivoted on the interior of the landside and having the free end of one lever extending from the rear end of the landside and adapted to be operated by the foot; substantially as set forth. 95

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HENRY G. SCHMITT.

Witnesses:

DANIEL G. BECKWITH,

his
JACOB X MILLER.
mark