

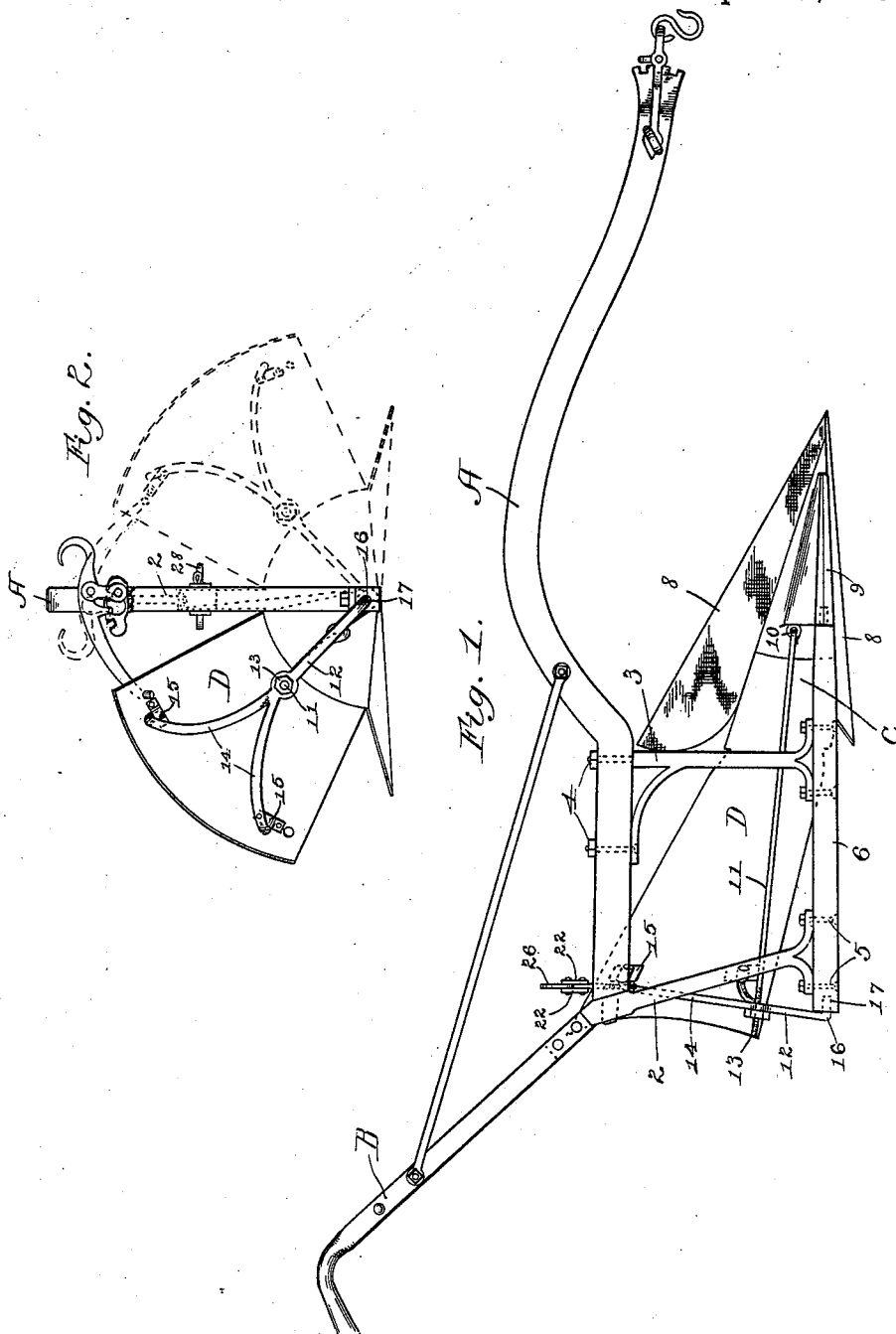
(No Model.)

2 Sheets—Sheet 1.

H. BAKKE & O. NORDLEY.
PLOW.

No. 568,558.

Patented Sept. 29, 1896.



Witnesses:

F. T. Bradbury
A. L. Johnson

Inventors: *Hans Bakke.*
Ole Nordley.

per: *T. O. Mearns*
Attorney.

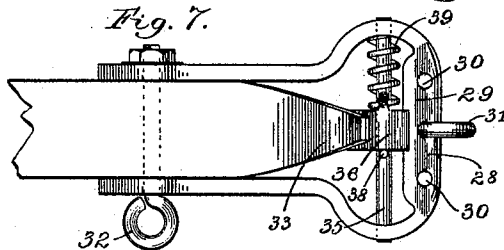
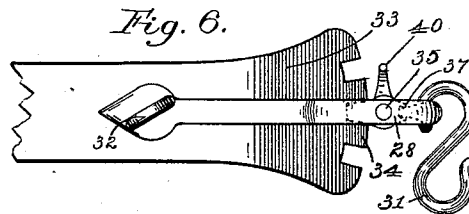
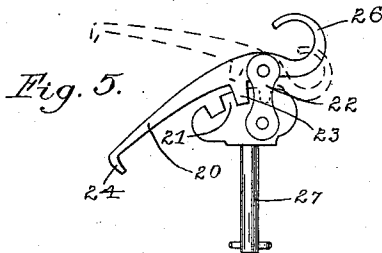
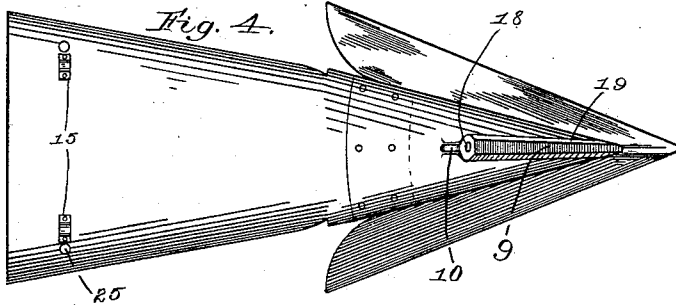
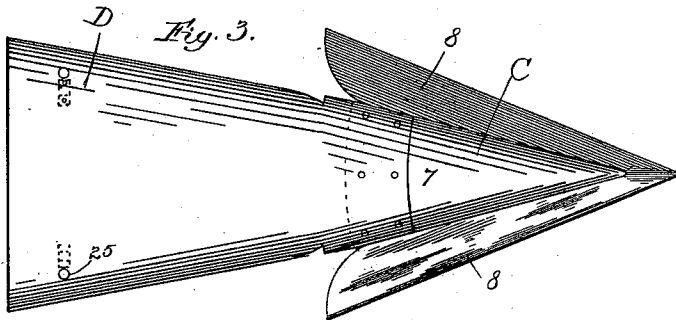
(No Model.)

2 Sheets—Sheet 2.

H. BAKKE & O. NORDLEY.
PLOW.

No. 568,558.

Patented Sept. 29, 1896.



Witnesses:

W. D. Bradbury.
A. S. Johnson.

Inventors: *Hans Bakke.*
Ole Nordley.

per: *V. D. Wilson*
Attorney.

UNITED STATES PATENT OFFICE.

HANS BAKKE AND OLE NORDLEY, OF ST. PAUL, MINNESOTA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 568,558, dated September 29, 1896.

Application filed November 18, 1895. Serial No. 569,301. (No model.)

To all whom it may concern:

Be it known that we, HANS BAKKE and OLE NORDLEY, of St. Paul, Ramsey county, Minnesota, have invented certain Improvements in Plows, of which the following is a specification.

Our invention relates to certain new and useful improvements in hillside-plows; and it consists in the improved features of construction and combination hereinafter particularly described and claimed.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation of our improved plow. Fig. 2 is a rear elevation of the same. Figs 3 and 4 are details of the moldboard and plowshare. Fig. 5 is a detail of the adjustable moldboard-support, and Figs. 6 and 7 are details of the adjustable clevis.

In the drawings, A represents the beam, and B the handles, of the plow.

2 and 3 represent the supporting-standards, the standard 2 being secured upon the rear end of the beam and the standard 3 being secured to the under side of the beam by means of the bolts 4. Detachably connected to the lower ends of the standards 2 and 3 by means of the bolts 5 is the landside 6.

D represents the moldboard, and C the plowshare, the plowshare being made up of the central portion 7 and the sides or blades 8. Secured to the under side of the plowshare intermediate of the blades is the piece 9. Connected with the rear of this piece, by means of the eye 10, is the tie-rod 11, extending rearwardly and passing through the Y-shaped brace 12, where it is secured by means of the threaded nut 13. The brace 12 is detachably connected to the moldboard by means of its arms 14, fitting in the sockets 15; secured to the under side of the moldboard, the opposite end 16 of the brace being inturned and fitting in the opening 17 in the rear end of the landside. The opposite end of the landside is adapted to fit in the opening 18 in the piece 9, pivotal connections thus being furnished at both ends of the landside with the moldboard and plowshare. The piece 9 is formed with the right-angled faces 19, so that when the moldboard and plowshare are upon one side of the beam one of these

faces will be in a plane corresponding with the bottom of the landside, and when reversed to the other side of the beam, the other face will correspond.

The moldboard and plowshare are supported in adjusted positions with relation to the beam A by means of the hook or arm 20 and notched quadrant 21. The quadrant 21 is swiveled upon the top of the beam A, and the hook 20 is pivoted to it by means of the connecting-link 22. This hook is formed with the tooth or spur 23 engaging with the notches upon the quadrant, one end 24 of the hook fitting in the hole 25 in the moldboard and the opposite end being formed with the curved portion 26 allowing it to be grasped by the hand, so as to be set in adjusted positions.

In the use of the plow the moldboard and plowshare can be placed upon either side of the beam A, turning upon their pivotal connections with the landside. They can then be supported in adjusted positions by means of the hook 20, the quadrant 21 turning upon its pivot-post 27, so that the hook will engage with the moldboard upon whichever side it may be placed.

Figs. 6 and 7 illustrate the adjustable clevis. 28 represents the draft-clevis, through the transverse web 29 of which is formed the holes 30 to receive the draft-hook 31, whereby lateral adjustment of the same is attained. The draft-clevis 28 is secured to the plow-beam A by means of the pin 32, which forms the axis to said clevis. The end 33 of the plow-beam is formed with the toothed vertical quadrant or clevis 34. The draft-clevis 28, as shown, is provided with the cross-bar 35 intermediate of the web 29 and the quadrant 34, upon which bar slides the block 36. The front face of this block is formed with the groove 37, engaging with the draft-clevis, its rear edge fitting into the notches of the quadrant 34, thus holding the draft-clevis in adjusted positions. The block 36, as shown, is held against the stop 38 and in engagement with the draft and vertical clevis by means of the spiral spring 39.

When it is desired to set the draft-clevis in differently-adjusted positions, the locking-block is pulled out of engagement with the

clevises by means of the projection 40 and against the tension of the spring. The draft-clevis then being set at the proper height the block is released, the spring 39 forcing it into locking position.

We claim—

1. In a hillside-plow, the combination with the moldboard and beam, of the hook having a vertical, pivotal support upon said beam whereby it may be turned to engage the board upon either side of the beam, and the adjustable connection between said hook and its pivotal support.

2. In a hillside-plow, the combination with the beam and reversible moldboard, of the notched quadrant having a vertical, pivotal support upon said beam, the arm detachably connected to the moldboard, the link connecting said arm to the quadrant, and the spur carried by the arm and adapted to engage the quadrant to lock the arm in adjusted positions.

3. In a hillside-plow, the combination with the beam, of the quadrant transverse of the beam, the arm connected to said quadrant by an interposed link pivoted to each, and adapted to detachably engage the moldboard on either side of the beam, and the spur carried by said arm for engaging said quadrant in adjusted positions.

4. In a hillside-plow, the combination with the moldboard and beam, of the notched quadrant transverse of the beam and having a vertical pivotal support upon the same allowing it to be turned to engage the moldboard upon either side, the arm linked to said quadrant so as to be adjustable longitudinally of the same, and adapted to detachably engage the moldboard, the tooth upon said arm adapted to engage the quadrant and hold the arm in adjusted positions, and the handle for

tripping said arm to release it from said quadrant and detach it from said moldboard.

5. In a hillside-plow, the combination with the moldboard, its plowshare and the landside, of the angular block attached to the plowshare, the bifurcated brace detachably connected to the moldboard and to the rear end of the landside, the other end of the landside having pivotal connection with said angular block, and the tie-rod having one end connected to the rear end of said angular block and the other detachably connected to said brace intermediate of its ends.

6. In a plow, the combination with the beam having a vertical quadrant on its draft end, of the clevis pivoted to said beam and being formed with a transverse web provided with draft-holes, and the locking-block slidable in said clevises intermediate of said transverse web and quadrant.

7. In a plow, the combination with the beam, of the vertical quadrant on its draft end, the clevis pivoted to said beam, the transverse bar carried by said clevis, and the locking-block slidable upon said bar, and adapted to engage said quadrant.

8. In a plow, the combination with the beam having the vertical quadrant on its draft end, of the clevis pivoted thereto, the laterally-adjustable draft connections for said clevis, the transverse guide, the block slidable in said guide, and adapted to engage said quadrant, and the spring and stop for controlling and limiting the movement of said block.

In testimony whereof we affix our signatures in presence of two witnesses.

HANS BAKKE.
OLE NORDLEY.

Witnesses:

MINNIE L. THAUWALD,
H. S. JOHNSON.