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M. BUTLER.

Plow.

No. 108,004.

Patented Oct. 4, 1870.

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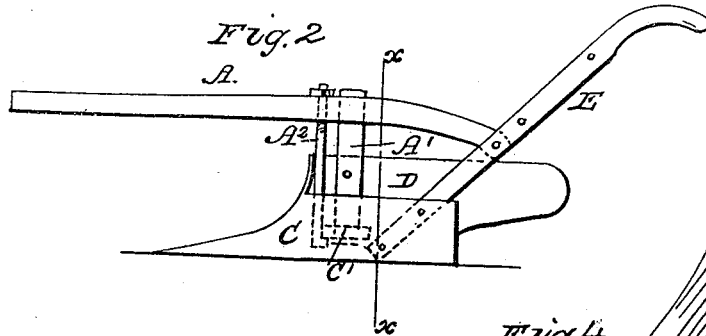
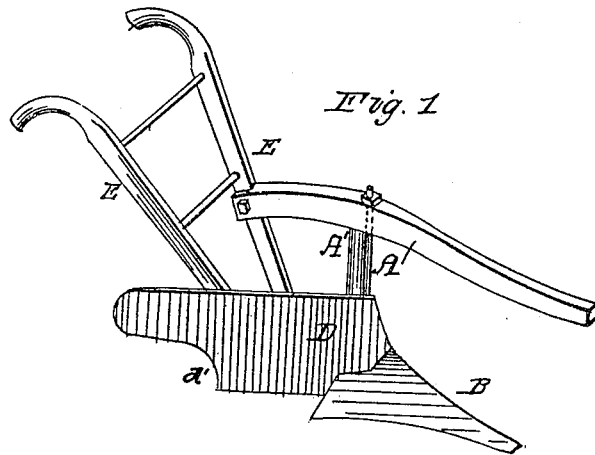


Fig. 3

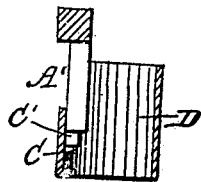
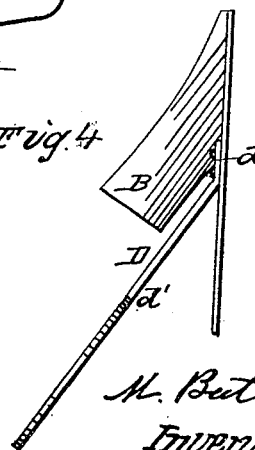


Fig. 4



Witnesses
A. Ruppert
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UNITED STATES PATENT OFFICE.

MANLOVE BUTLER, OF VERNON, INDIANA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 108,004, dated October 4, 1870.

To all whom it may concern:

Be it known that I, MANLOVE BUTLER, of Vernon, in the county of Jennings and State of Indiana, have invented certain Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a perspective view of a plow embodying my improvements. Fig. 2 is a side elevation, seen from the land side. Fig. 3 is a section on line *x x* of Fig. 2, looking forward. Fig. 4 is a bottom view of the plowshare, landside, and mold-board.

The same letters are used in all the figures in the designation of identical parts.

This invention relates to plows for turning up the soil; and it consists mainly in the construction and arrangement of the mold-board, as will be more fully set forth in the following description and claims.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the annexed drawings, A represents the beam of the plow, which is to be provided at its forward end with the ordinary clevis, to which the draft-animals are hitched. The standard A', secured to the beam at about the point indicated, terminates at its lower end in a tenon to be inserted in a pocket or loop, C', on the landside, which is firmly held by a tie-rod or bolt, A², to such standard and beam, the head of said rod hooking under the loop, while the rod passes up through an aperture in the beam and is secured by a tightening-nut in the manner clearly shown in Fig. 2.

The plowshare B may be constructed substantially as shown in the drawings, or in any other approved form, provided, always, that its edge nearest the mold-board does not touch the latter when the parts have been connected together, but leaves a sufficient space at that point or line to permit the earth, which would naturally clog in the corner formed by a close junction of the share and the perpendicular mold-board which I employ, to pass downward between the two into the furrow. The share may be welded or otherwise attached to the

landside C, which is of the common type, but has formed or is provided upon its inner face with a loop, C', for the purpose above stated.

The mold-board D is a straight or plain plate of metal, attached at its forward end by a flange, *d*, to the landside under the share, and, leaving the landside at the proper angle, extends with its full height or width to the rear to a point marked *d'*, the distance of which from the landside is slightly less than that of the rear point of the share, so that the lower edge of the mold-board, which is in about the same horizontal plane with the cutting-edge of the share and the sole of the landside, may run on the bottom of the furrow, for the purpose of giving steadiness to the plow. Beginning at this point *d'* a portion of the mold-board is cut away, as clearly shown in Fig. 1, the upper portion continuing the required distance to the rear to turn over the slice of earth turned up by the share. The mold-board is arranged perpendicularly, and this, together with its plain surface, will be found to make an admirable form of mold-board for plowing in loam land.

The handles E E are attached, one to the landside and rear end of the plow-beam and the other to the rear side of the mold-board, and thus, being connected by cross-bars, serve in a measure to add to the firmness and inflexibility of all the different parts constituting the complete plow.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The plain perpendicular mold-board D, when its lower edge is in one horizontal plane with the cutting-edge of the share and the sole of the landside, substantially as set forth.

2. The combination of the mold-board D and share B, when arranged with reference to each other, as described, so as to leave a space between the upper edge of the share and the face of the mold-board, for the purpose set forth.

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

MANLOVE BUTLER.

Witnesses:

JEPHTHA D. NEW,
JACOB HENNINGER.