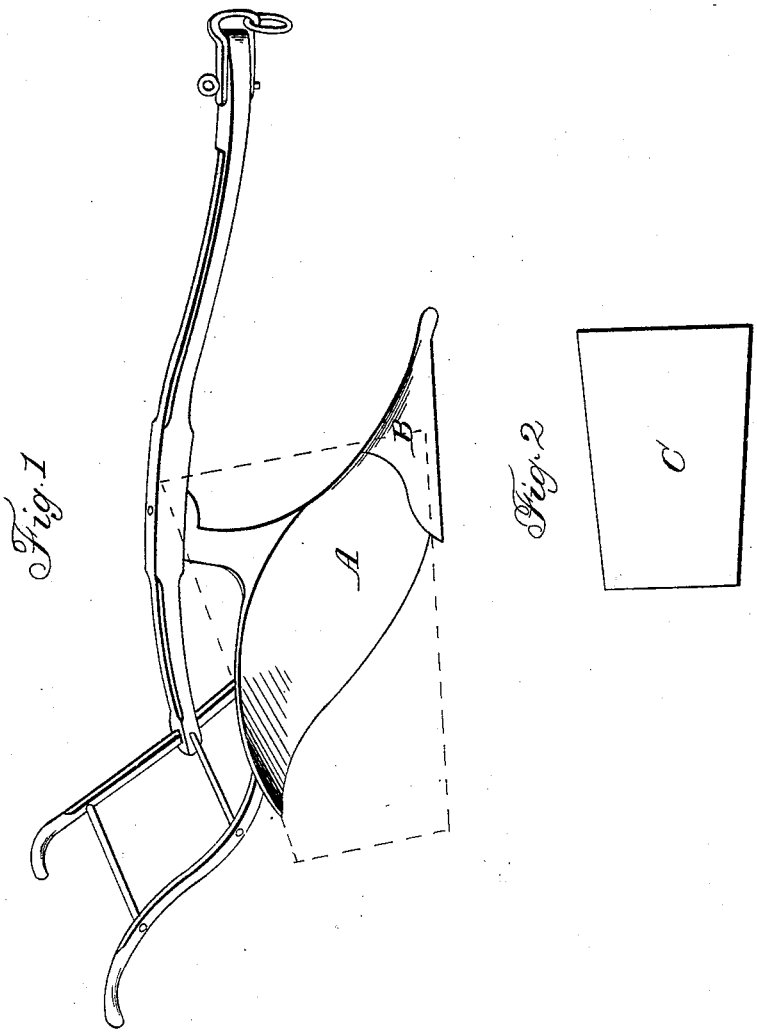
S. MEAD.

Plow.

No. 39,943. Patented Sept. 15 1863



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UNITED STATES PATENT OFFICE.

SOLOMON MEAD, OF NEW HAVEN, CONNECTICUT.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **39,943**, dated September 15, 1863.

To all whom it may concern:

Be it known that I, SOLOMON MEAD, of the city and county of New Haven, in the State of Connecticut, have invented new and useful Improvements in the Construction of Plows; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and letters of reference marked thereon, in which drawings—

Figure 1 is a perspective view of a plow. Fig. 2 represents the frustum of a cone, serving to illustrate the form or plan of constructing the mold-board or turning-surface of the plow.

The nature of my invention consists in an improved form given to the outer or turning surface of the plow, as hereinafter explained.

If the frustum of a cone is applied to the mold-board with its small end to the rear of the mold-board, their surfaces corresponding, (so far as the mold-board extends,) it will show the plan of constructing the mold-board or turning-surface of the plow.

That others skilled in the art may be able to make and use my invention, I will proceed to describe its construction and operation.

In Fig. 1, A represents the mold-board or turning-surface of the plow. B represents the plowshare, and is attached to the mold-board in the usual way by a bolt.

Fig. 2 represents the frustum of a cone, C, which may be made more or less conical, as desired.

The mold-board A is so shaped in its construction as to fit the outer surface of a frustum of a cone, C, when respectively applied to each other.

The upper surface of the plowshare B partakes generally in the curve of the adjacent part of the mold-board, and is supplied with a colter when used for plowing turf and the like.

The objects sought or gained in the above-described form of the plow are twofold, viz: First, a very easy draft is secured by using the large end of the cone foremost in the plow, thus making the entering wedge of the plow for the separation of the furrow-slice a very gentle and easy one; second, the short and complete turn which by this plan is given to the back and upper part of the mold-board is believed to accomplish a more complete and perfect turning of the furrow-slice than any other plan now in use.

The axis of the plow, as determined by the corresponding axis of the cone when applied to the plow, may run parallel with or at any angle with the base or draft line of the plow.

The feature of novelty as described and pertaining to this plow is the conical shape of the outer or turning surface of the mold-board A, while the same general curve is extended to the larger part of the share B.

I claim—

The construction of the mold-board or turning-surface of plows to correspond with a section or segment of a cone, substantially as before described, and for the purposes set forth.

SOLOMON MEAD.

Witnesses:
E. I. SANFORD,
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