

John Lane Jr.

Plow

No. 113436

Patented Apr. 4 1871.

Fig:1.

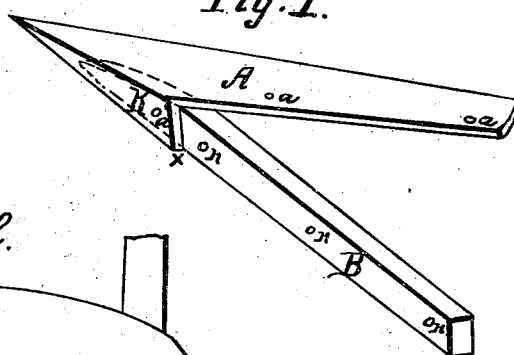


Fig:2.

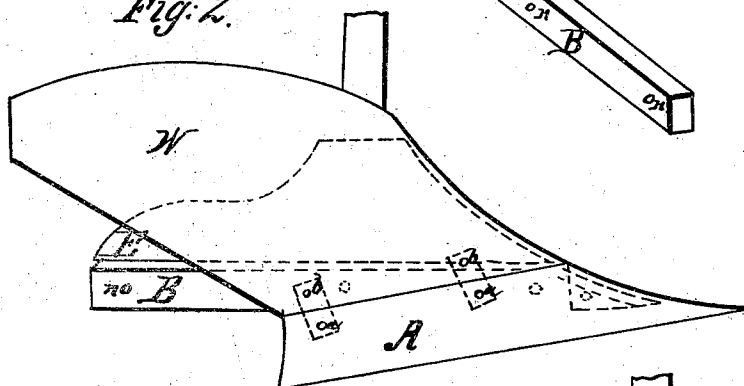
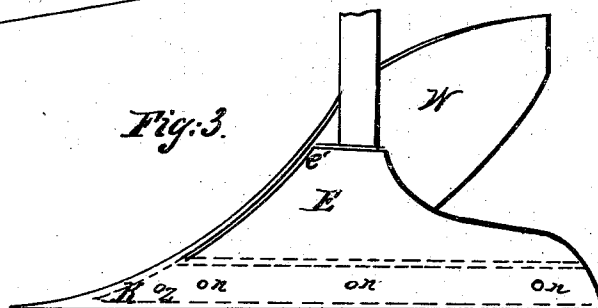


Fig:3.



Witnesses:
Charles Anderson
Ernest J. Lane

Inventor.

John Lane Jr.

UNITED STATES PATENT OFFICE.

JOHN LANE, JR., OF CHICAGO, ILLINOIS.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 113,436, dated April 4, 1871.

To all whom it may concern:

Be it known that I, JOHN LANE, Jr., formerly of Lockport, now of Chicago, Cook county and State of Illinois, have invented certain new and useful Improvements in the Manufacture of Plows, of which the following is a specification, giving a full, clear, and exact description of the construction and operation of the same, making reference to the accompanying drawing, in which like letters indicate like parts.

My invention relates to that class of plows which have their wearing-surface of steel, and it consists in a steel plowshare, which is removable from the land-side bar and mold-board when the share is constructed having a flange, and the land-side bar is faced with steel, and the forward end of the land-side bar extends under and supports the forward end of the share, substantially as herein shown.

Figure 1 gives a view of a plowshare and land-side bar detached from the land-side bar facing and mold-board. Fig. 2 gives a view of the mold-board side of the plow. Fig. 3 gives a view of the land-side side of the plow.

A is a steel plowshare, having a flange, K, at its forward end. B is the land-side bar, its forward end extending under the forward end of the share A by the side of the flange K, and a bolt at *z* secures the land-side bar in its position. The back end of the flange K forms a shoulder, as seen at *x*.

E is a steel facing of the land-side bar, to which it is secured by rivets or screw-bolts at *n n n*, and its forward end rests against the shoulder *x*, at the back end of the flange K, and the breast of the facing fitting under the thin end of the mold-board, as shown, *e* to *e*, in Fig. 3; and any proper method of securing the breast of the facing and the shin end of the mold-board together may be used.

W is a steel mold-board, which is secured

in position by bolts or rivets at *b b*, through lugs or connecting-bars, to which the share A is also bolted at *a a*. More or less bolts, rivets, or lugs may be used, and they may be in any position securing the parts together.

The flange K is formed on the end of the share by welding thereto a piece of metal of the shape and form of the flange, or a portion of the share may be bent over the end of the land-side bar, and the flange may or may not be so bent or formed as to hook on the under side of the land-side bar, and which is not an essential part of my invention.

My invention, although seemingly slight, is important, as by its use I am enabled to make a strong plow, of extreme hard-tempered steel face throughout the whole wearing-surface, which has not as yet been accomplished by any other method of construction. It is well known that throughout the West the plow is made of steel, and the mold-board hardened to the extreme hard temper, while the share and land-side were left untempered, by reason that it is not practicable to hard-temper shares which are welded to a land-side bar, owing to their springing and warping destroying them for use. By the use of my improved method of construction the share and land-side bar facing are in separate pieces and removable from the land-side bar—whereas before they were as one piece—and may be hardened to the extreme hard temper without liability of being destroyed by springing or warping.

Having thus set forth my invention, I claim—

In combination, the land-side bar B, steel plate E, mold-board W, share A, and flange K, all as herein set forth.

JOHN LANE, JR.

Witnesses:

JOSEPH M. WEEKS,
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