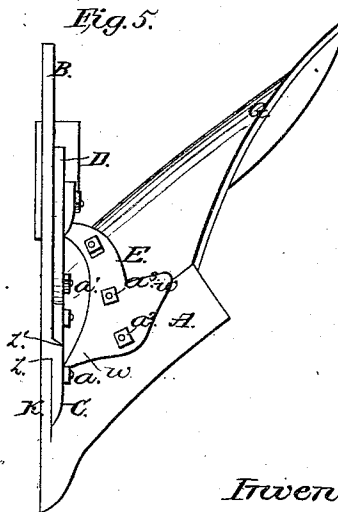
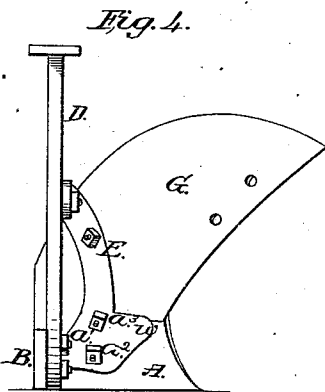
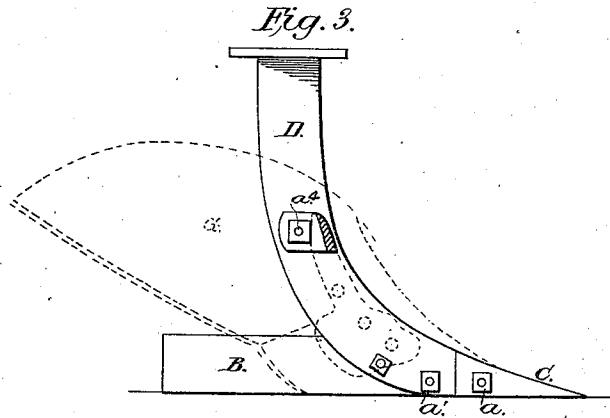
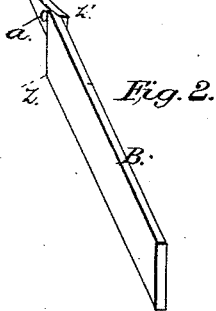
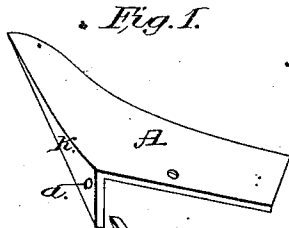


J. LANE.
Plow.

No. 162,240.

Patented April 20, 1875.



Witnesses:

Ernest Lane
Johan Halvorsen

Inventor:

John Lane

UNITED STATES PATENT OFFICE.

JOHN LANE, OF ST. LOUIS, MISSOURI, ASSIGNOR TO HAPGOOD & CO., OF
SAME PLACE.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **162,240**, dated April 20, 1875; application filed
January 14, 1875.

To all whom it may concern:

Be it known that I, JOHN LANE, of St. Louis, Missouri, have invented certain new and useful Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description thereof, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to plows made of wrought metal; and consists in the peculiar construction and arrangement, as is hereinafter set forth.

Referring to the drawings, Figure 1 is a view of the share A. Fig. 2 is a view of the land-bar B, an ordinary bar of iron or steel, ending at Z, to which is welded a support, C, projecting under and supporting the point of the share. Figs. 3, 4, and 5 are views showing the construction and arrangements, to enable others skilled in the art to construct my invention.

The share A is of ordinary construction, having a lip or turn-down, K, welded thereto, the two uniting and forming the point of the share. The lip K is perforated at *a*, for the purpose of being bolted to the support C by a bolt at *a*, as shown. The lip K ends at or near the mold-board edge of the share, and is fitted to rest against the shoulder Z, formed by the forward end of the land-bar B. The support C is a flat bar, with its top edge fitting the under side of the share, the bottom edge of the support being on a plane level with the bottom of the land-bar, the two edges tapering toward the point, to fit under the share by the side of the lip K, and give support to the point of the share. The support C is welded to the side of the land-bar B, and so formed as to provide a shoulder, Z, on the end of the land-bar B, against which the rear end of the lip K rests; also, to provide a shoulder, Z', on the rear end of the support C, against which the lower end of the standard rests, as shown in the drawings. The standard D is an ordinary bar, bent concave in front to the curve of the back of the mold-board. The lower end of the standard terminates at the shoulder Z', and is bolted to the

land-bar with a removable bolt, *a'*, as shown in the drawings. The frog E is a bar bent to the curve of the back of the share and mold-board, and extending up to the standard near the top edge of the mold-board, where it is twisted and fits the side of the standard, and is bolted thereto with removable bolts *a'' a''' a''''*. To the lower end of the frog is welded a piece of iron, W, which is flattened out wide for a better support between the share and mold-board, covering the line of junction, and keeping the share and mold-board in position without the aid of more than one bolt through each, as shown in the drawings. The mold-board is of any ordinary construction, bolted to the frog, as shown. The wood is attached in any common well-known manner.

My invention, although seemingly slight, is of great importance. In removing the standard without knocking down the remaining parts, as in shipping long distances, the woods and standard being removed, the plows are packed closely, and a larger number can be placed in boxes or crates without waste of space, and the standard again replaced without the aid of expert workmen. Either the standard, share, mold-board, or land-side may be removed without knocking down the remainder, which is important, in that unskilled workmen may rebuild the knock-down plow without calling the assistance of a mechanic.

Having thus set forth my invention, what I desire to secure by Letters Patent of the United States is—

1. The land-bar B, with support C and shoulders Z Z', in combination with the standard D, curved to the back of the mold-board and ending against the shoulder Z', and removable therefrom, and secured to the land-bar with a bolt at *a'*, arranged as and for the purpose shown.

2. The frog E, bent to the curve of the mold-board, and twisted to the side of the standard, in combination with the wide support W, covering the line of junction, as shown, substantially as and for the purpose set forth.

JOHN LANE.

Witnesses:

ERNEST J. LANE,
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