J. LANE.
Plow.

No. 204,902. Patented June 18, 1878.

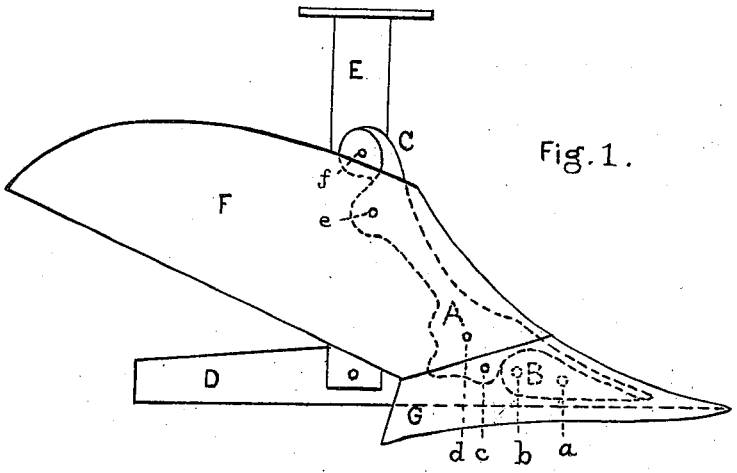

Fig. 1.

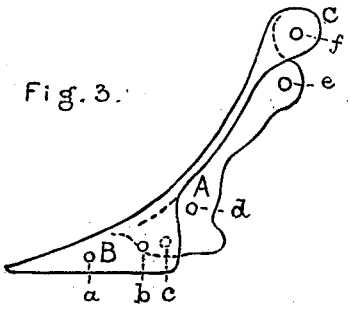

Fig. 3.

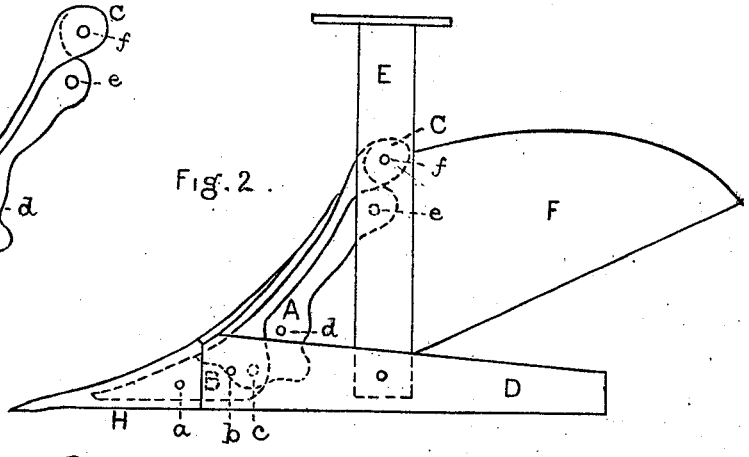

Fig. 2.

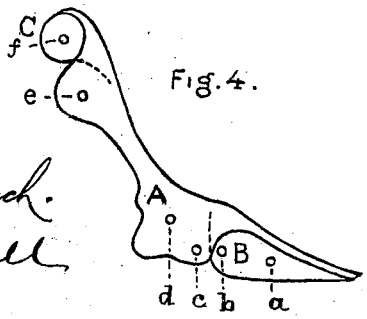

Fig. 4.

ATTEST.

Thyson H. Church.

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INVENTOR.

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JOHN LANE, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **204,902**, dated June 18, 1878; application filed December 17, 1877.

To all whom it may concern:

Be it known that I, JOHN LANE, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Plows, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figures 1 and 2 are views of a plow from opposite sides, showing my improvement attached. Figs. 3 and 4 are views of my improvement detached from the plow.

My invention relates to steel plows; and consists in providing a peculiarly-constructed frame, which I call a "frog," and to which the several parts—*i. e.*, share, share end, land-side bar, standard, and mold-board—are bolted, and by which the point of the share is supported, as hereinafter shown.

The object of my invention is to provide a frog or frame on which all the parts are combined and bolted, and which gives support to all of them, and especially gives support to the point of the share without any additional lugs, ears, or bars, and makes a strong, cheap, and attractive plow.

In the drawings, A is a flange, extending from under the share to the standard, and conforming to the curvature of the mold-board, which flange is bolted to the share at *c* and to the mold-board at *d* and *e*.

B is a turn-down support, extending along by the side of the land-side bar and forward by the side of the turn-down end of the share and under the share, giving support to the point of the share, and to which the land-side bar is bolted at *b* and the share end at *a*.

C is a twisted ear, fitting the side of the standard E, and to which it is bolted at *f*.

The flange A does not extend forward with the support B, but springs out from the top of the support B back of the perforation *a*, as shown in the drawings. This is to provide that the perforation *a* may be high up, as when it is low down the nut on the bolt in the perforation *a* is liable to gather trash and roots, causing the plow to clog and work bad, while, when made as shown, the perforation *a* is high up, with nothing between the nut and the share above it.

That portion of the flange A between the perforations *c* and *d* is wide, extending under and supporting the share and mold-board where they meet in line together. Above the perforation *d* the flange A reduces to a mere bar, with an enlargement at the perforation *e*, as shown in the drawings, making a flange of light weight and great strength.

The support B, the flange A springing therefrom, as shown, the ear C, and the perforations *a*, *b*, *c*, *d*, *e*, and *f* are all so arranged that no other bars, ears, lugs, or perforations are required to combine together and support the several parts of the plow, as shown, and the land-side bar, standard, and mold-board may be of the most simple construction, without lugs, ears, or supports, my improved frame or frog giving a complete and sole support in uniting all the parts together and supporting the point of the share, as shown in Figs. 1 and 2, in which D is the land-side bar, E is the standard, F is the mold-board, G is the share, and H is the turn-down share end.

My improved frog may be made of either cast or wrought metal. I prefer to make it of cast-steel, whereby it may be light and strong.

I am aware that frames and blocks on which some parts have been bolted have been before used, and I do not claim, broadly, a plow-frame.

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

The plow-frog frame formed of one piece of metal, consisting of the support B, having the flange A springing therefrom behind the perforation *a*, leaving the support B extending forward alone to support the point, and with the ear C and the perforations *a b c d e f*, as shown, by which the land-side bar D, standard E, mold-board F, share G, and share turn-down H are attached, and whereby the perforation *a* may be high up near the share, all constructed substantially as shown, and for the purpose set forth.

JOHN LANE.

Witnesses:
G. H. HULL,
HARRY SCHILLER.