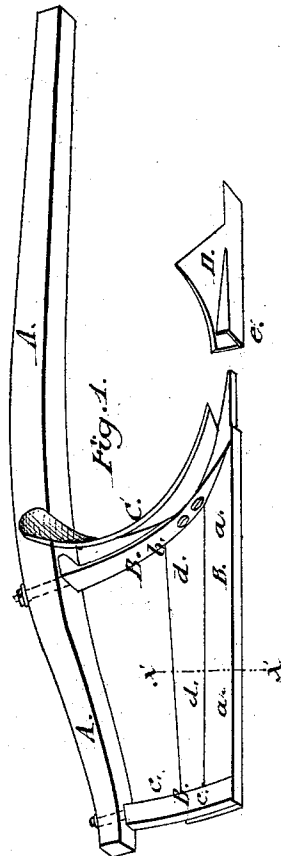
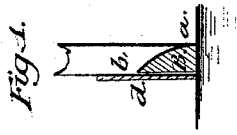


A. P. Ingalls,

Plow.

No. 80,839.

Patented Feb. 9. 1869.



Witnesses:
G. Raethig
Wm. A. Morgan

Inventor:
A. P. Ingalls
Munn & Co.
Attorneys

UNITED STATES PATENT OFFICE.

ALBERT P. INGALLS, OF SHELBYVILLE, ILLINOIS, ASSIGNOR TO HIMSELF
AND JAMES W. CHENEY, OF SAME PLACE.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 86,839, dated February 9, 1869.

To all whom it may concern:

Be it known that I, ALBERT P. INGALLS, of Shelbyville, in the county of Shelby and State of Illinois, have invented a new and Improved Plow; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a perspective view of my improved plow, showing the point detached. Fig. 2 is a detail vertical transverse section of the same, taken on the plane of the line *x x*, Fig. 1.

Similar letters of reference indicate like parts.

This invention relates to a new plow, which is light, of a simple construction, and easily repaired; and it consists, first, in the application of a supporting-frame cast or made of one piece; and, second, of a removable plow-point, which is fitted upon the end of the frame and provided by being bent with a socket for the reception of said end.

A in the drawings represents the plow-beam. B is the frame, C the share, and D the point.

The beam A is made of wood or suitable material, of suitable form.

The frame B consists of a horizontal lower bar, *a*, from the ends of which two uprights, *b* and *c*, project upward.

The front upright, *b*, is rounded, and has a

beveled edge to receive the plowshare, while the rear upright, *c*, is straight or of othersuitable form. The upper ends of the uprights *b* and *c* have tenons that are fitted through the plow-beam or are otherwise so constructed as to be readily fastened. The frame is cast of one piece of cast or malleable iron or other metal, and supports not only the plowshare C, which is riveted to the beveled edge of the front post, *b*, but also to the landside-plate *d*, which is fastened to the lower bar, *a*, by means of rivets or otherwise.

The landside may, if desired, be made to form part of the frame instead of being fastened thereto. The plowshare is made without a point, and the front end of the frame projects beyond it, as shown.

The plow-point D is bent downward on the landside and then in and up to form a socket, *e*, for the point of the frame to fit into. The plow-point is thus easily removable from the frame and can be replaced when worn.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of the angular frame B, curved at the front and forming a wedge-point, landside-plate *d*, share C, beam A, and socket-point D, all constructed substantially as shown and described.

ALBERT P. INGALLS.

Witnesses:

W. H. KELLY,

WM. H. GUILFORD.