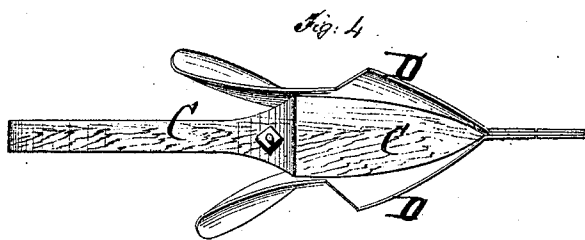
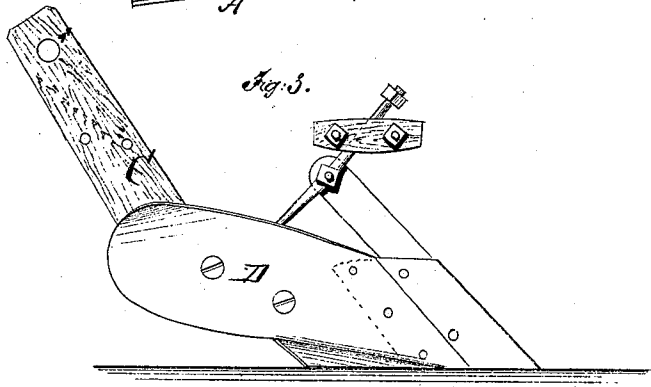
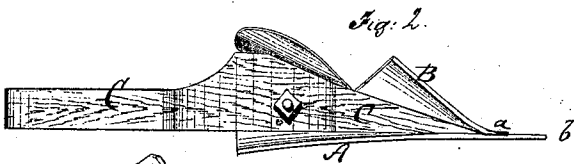
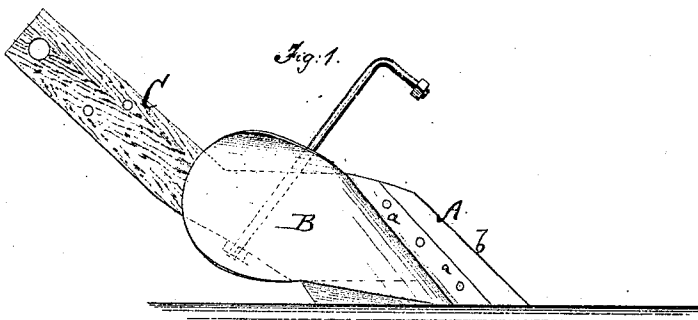


A. C. Judson,

Flow.

No. 100042.

Patented Feb. 22. 1870.



Witnesses:

Chas. Nick
Geo. W. Water

Inventor:

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PER *Munn & Co*
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UNITED STATES PATENT OFFICE.

A. C. JUDSON, OF GRAND RAPIDS, OHIO, ASSIGNOR TO E. O. JUDSON.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **100,042**, dated February 22, 1870.

To all whom it may concern:

Be it known that I, A. C. JUDSON, of Grand Rapids, in the county of Wood and State of Ohio, have invented a new and useful Improvement in Plows; 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.

Figure 1 represents a side view of my improved plow. Fig. 2 is an inverted plan view of the same. Fig. 3 is a side view of a modification of the same. Fig. 4 is an inverted plan view of the same.

Similar letters of reference indicate corresponding parts.

My invention relates to plows, which I provide with wooden standards which completely fill the space between the mold-board and land-side, thereby strengthening the last two, so that they may be made thinner than heretofore, and the use of the handles and braces usually employed dispensed with; and the invention consists in the construction and arrangement of the mold-board, land-side, and standard, as hereinafter specified.

In the drawings the land-side is represented as extended forward beyond the front edge of the mold-board B, which can be strengthened by forming a flat flange, *a*, on the front end of the mold-board and riveting the same to the land-side, as shown.

The extended land-side has a beveled front cutting-edge, *b*, which will cut the sods before they are turned down by the mold-board. The extended cutting part will also serve as a purchase for the lifting or turning part.

The invention consists, also, in extending

the lower part of the wooden standard C forward to the junction of the mold-board and land-side by pointing such lower part of the standard and causing it to fill the entire space between the said land-side and mold-board. The wood will thereby serve to strengthen and stiffen the mold-board without materially increasing the weight. Lighter material may consequently be used on the sides of the plow, and still they will last longer than on the hollow plow.

The same improvement is applicable to the double-shovel plow shown in Figs. 1 and 2, in which the standard C extends forward to the junction of the two shovels or mold-boards D D, as shown, strengthening and bracing both. This construction, it will be observed, avoids the necessity of handles bent and bolted to the mold-board and land-side, since the standard C extends or is designed to be extended upward at such an angle as to allow short handles to be conveniently attached.

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

The improved plow formed by the land-side A, extended to form a cutting-edge, *b*, the mold-board B, and the standard C, filling the entire space between said mold-board and land-side, and extending rearward and upward at the angle shown to allow the attachment of handles thereto, all constructed and arranged as shown, and for the purpose set forth.

A. C. JUDSON.

Witnesses:

JAS. J. VORHES,
ISRAEL POWELL.