

Plow.

Patented Nov 15, 1870.



UNITED STATES PATENT OFFICE.

THOMAS E. C. BRINLY, OF LOUISVILLE, KENTUCKY.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **109,291**, dated November 15, 1870.

To all whom it may concern:

Be it known that I, THOMAS E. C. BRINLY, of Louisville, in the county of Jefferson and State of Kentucky, have invented certain Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a perspective view of my improved standard with the share and mold-board attached thereto. Fig. 2 is another perspective view thereof, seen from the rear, and showing the parts in an inclined position. Fig. 3 is an elevation of the standard, seen from the land side. Fig. 4 is an elevation thereof, seen from the opposite side. Fig. 5 is an elevation, seen from the land side, of part of the device seen in Figs. 1 and 2. Fig. 6 is a plan view of the share and landside detached. Fig. 7 is a plan view of the mold-board detached.

The same letters are used in all the figures in the designation of identical parts.

This invention relates to plows; and my improvement consists in a novel manner of firmly uniting the standard, share, landside, and mold-board together by means which will be more specifically pointed out in the subjoined description and claim.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The standard or helve (marked A in the annexed drawings) is provided at its upper end with the ordinary flange, A', by which it is firmly bolted to the beam of the plow. It is made of cast-iron, with a web of required thickness, and is strengthened by forming ribs *a a* along its edges, as shown. The forward edge is beveled and curved to give the proper inclination to the mold-board B and accommodate itself to its curvature. The upper end of said mold-board is bolted to a laterally-projecting ear, A², of the standard, and a flange, A³, formed at the lower forward edge of the latter, extends a sufficient distance under the mold-board to

give a firm support to the same at the lower end. This flange A³ is of a triangular form in cross-section, as clearly shown in Fig. 2, its base being in a horizontal plane, or nearly so, and it is cast with apertures *a' a'* in it passing through it in a nearly vertical direction from the side which supports the lower end of the mold-board to the base.

The share C, on the side or edge where it is jointed to the mold-board, is formed with a flange, C', extending to the rear, below the latter, and so arranged as to fit with its upper surface nicely to the base of the triangular flange A³ of the standard. Suitable holes having been bored in the mold-board and the flange of the share, opposite the holes *a' a'* in the flange of the standard, the parts are firmly screwed together by bolts and nuts, the heads of the bolts being bent at an angle to the shank and countersunk in the mold-board so as to be flush with its upper surface. The upper end of the mold-board is at the same time bolted to the ear A². In this instance the landside D forms a part of the share, being welded to the same, and the standard rests with its lower edge upon the upper edge of the landside-bar when all the parts have been united together. To prevent the springing or bending of the landside-bar and to still more securely unite all the parts together, I form an ear, A⁴, on the standard, as shown, and bolt the landside thereto.

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

The standard A, constructed with the ears A² and A⁴ and flange A³, in combination with the mold-board B, flanged share C C', and landside D, the parts being united together substantially in the manner set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

T. E. C. BRINLY.

Witnesses:

F. HAMMOND,
JAMES M. WELLS.