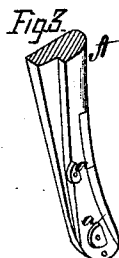


Improvement in Plows.

Patented June 4, 1872.



James O. Hutchinson
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UNITED STATES PATENT OFFICE.

GILLUM SHELTON, OF NORMAL, ILLINOIS.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 127,650, dated June 4, 1872.

To all whom it may concern:

Be it known that I, GILLUM SHELTON, of Normal, in the county of McLean and in the State of Illinois, have invented certain new and useful Improvements in Plows; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a plow-standard and wooden plow-beam with metal rear-extensions, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view of a plow, showing my improvements on the same, a part of the mold-board being broken off to show the lower end of the standard. Fig. 2 is an enlarged perspective view of the rear metal extension to the wooden plow-beam; and Fig. 3 is a perspective view of a part of the plow-standard.

A represents the plow-standard, provided with lugs *a a* on its side at the lower end for the attachment of the mold-board B. C is the wooden plow-beam, to which the standard A is attached. This standard is constructed substantially in the same manner as those now generally in use, except that it is rounded at the front edge from the point where the front end of the mold-board comes up to the beam C. This rounded edge is ground and polished so as to present no sharp edges or angles to hold grass and other trash, such as corn-stalks, wheat or oat stubble, &c. The plow-beam C is made of wood, and extends in rear only to or a very short distance beyond the back end of the standard. On the hind end of the wooden beam C is fitted an iron bar or extension, D, made, as shown in Fig. 2, of one or more pieces, the upper strip of the same extending far enough on top of the beam to have two bolts, *b b*, go through it and the beam, which bolts also fasten the plow-standard to the beam. This bar D lies upon top of the beam C, as shown, and extends over the rear end of said beam and has a strap bent under

the beam, so as to be either between the rear-extended end of the standard and the beam, or lapped over the extended end of the standard, as shown. Said bar is also provided with a prong projecting in the rear of both the beam and the standard, so that when the parts are put together by the rear bolt *b* they are effectually clamped and their rear ends metal bound, as shown. The rear end of the bar D is forked, as shown in Fig. 2, and fastened to the land-side handle E. The plow-standard A is preferably made of cast-iron, and provided with a suitable groove for a wrought-iron bar, G, to lie within, said wrought-iron bar passing up through the beam C and upper strap of the bar D, and is fastened by a nut, as shown. This bar G is connected with the beam, the standard, and the land-side, and rigidly holds the parts together.

By the use of the rear extension bar D the plow-standard A may be made considerably higher than is usually the case, as the bar D can be bent to the proper pitch to suit, although the rear end of the wooden beam is raised as much higher as the standard is made longer. This is very important and of very great advantage in plowing new land, as it gives a free place above the mold-board, preventing all choking; and, in connection with the rounded front edge of the plow-standard, will allow the plow to run through any kind of land with ease, and do good work, and will not choke.

My invention is applicable to either a left or a right hand plow.

I am aware of the existence of a plow having a cylindrical standard, which extends through the beam and sets in the rear of the mold-board. I am also aware that a metallic strap, covering the top, rear end, and bottom of the beam, has been used on a plow, as referred to, and that said strap has a short tongue extending rearward, and movable in a slotted plate connected to one of the plow-handles, so as to allow the beam to have an adjustment both lateral and vertical, for the purpose of regulating the width and depth of the furrow; hence, I do not claim such to be my invention.

My plow-standard is made higher than the ordinary standard. It is flush with the front edge of the mold-board; it is rounded from the upper edge of the mold-board to the beam;

it has an extension at its top both forward and rearward; stubble and other trash cannot catch and lie in between the standard and mold-board; it is rigidly connected to the beam; and the plow-handle is rigidly attached to the beam, and in the rear thereof sufficiently far to prevent the grass, &c., from catching between the mold-board and handles.

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

The combination of the vertically-grooved cast-iron standard A with front and rear ex-

tensions at its top and rounded, as described, wrought-iron bar G connected to the beam, standard, and land-side, beam C, bent metal strap D with prong extending in the rear of the beam, and the handles E, all the parts being constructed and arranged substantially as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 22d day of December, 1871.

Witnesses: GILLUM SHELTON.

THOS. SLADE,
ISAAC C. HEWARD.