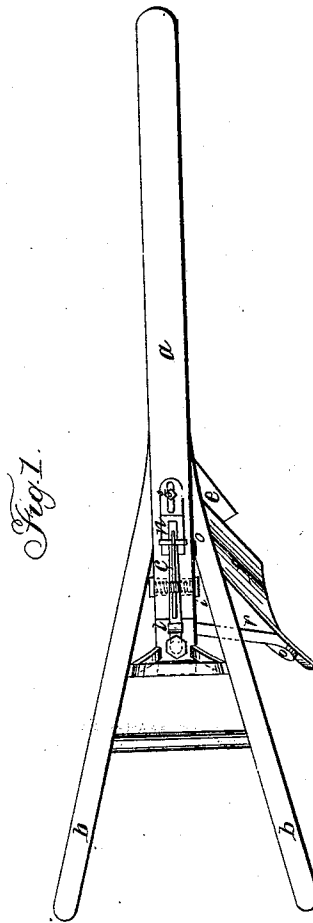
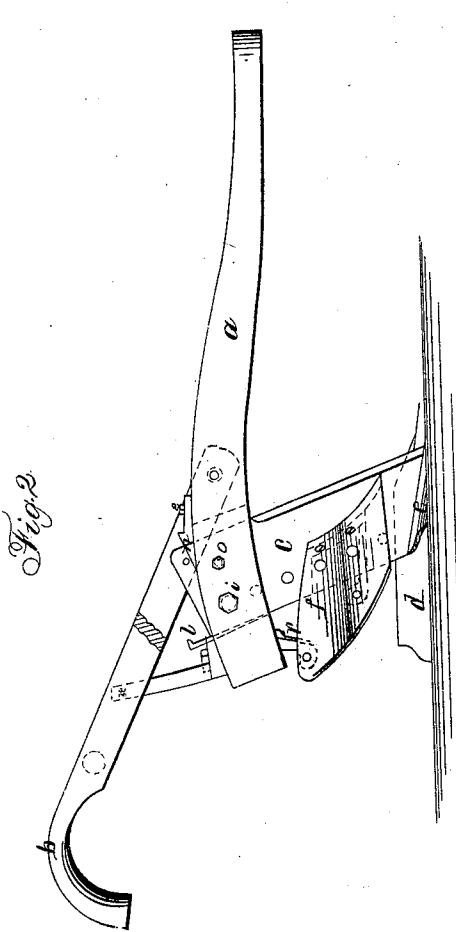


J. FOWLER.

Plow.

No. 63,151

Patented Mar. 26, 1867.



Witnesses:

F. B. Stockbridge

Geo. E. Dunn

Inventor.

Joseph Fowler

United States Patent Office.

JOSEPH FOWLER, OF HARTLAND, WISCONSIN.

Letters Patent No. 63,151, dated March 26, 1867.

IMPROVEMENT IN PLOUGHS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOSEPH FOWLER, of Hartland, in the county of Waukesha, and State of Wisconsin, have invented, made, and applied to use a certain new and useful Improvement in Ploughs; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1 is a plan of said plough; and

Figure 2 is an elevation of the same with the handle on one side removed.

Similar marks of reference denote the same parts.

The objects of my invention are to adjust the beam upon the standard of the plough so as to bring the end of the beam on the proper line of draught for the plough. This I effect in both horizontal and vertical directions. The vertical adjustment of the beam is effected by a wedge acting under a cross-pin or projection at the front and upper part of the standard, so that the line of draught from the points of the plough through the clevis to the hames of the horses shall be adjusted according to the height of the horse or the length of the traces. The horizontal adjustment is for throwing the plough on or off the land-side according to the power employed, whether one, two, three, or more horses, thus placing the operation of the plough as to depth of cut and width of furrow entirely under the control of the operator.

In the drawing, *a* is the beam, provided with any suitable clevis; *b b* are the handles; *c* is the standard of the plough; *d* is the shoe; *e* is a subsoil mould-board; *f* is the main mould-board, that is made adjustable so as to vary the depth of cut, the same being attached by a metal stock that screws to the side of the standard *c*, and said standard has several holes so that the mould-board can be taken off and reattached higher or lower. The plough-beam *a* has a mortise for the reception of the standard *c*, and this mortise is wide at the rear end and narrow at the front end. The standard is permanently connected by the bolt *i*, and *o* is a second bolt passing through a slot which allows the front end of the beam to be raised or lowered. *n* is a slotted wedge setting beneath the cross-pin or *T* on the front upper corner of the standard *c*. This wedge can be moved for adjusting the vertical draught, and a set-screw, *2*, is employed for clamping the wedge *n* in place. A wedge, *l*, is introduced at the back and upper end of the standard *c*, within the slot in the beam, and acts to key the standard tight within said beam after it has been adjusted. The bolt *i* has a screw-thread cut in the body thereof, taking a thread in the hole through the standard, and this bolt is free to be revolved in the hole through the beam *a*, and said bolt has a head at each end so that it can be turned while in its place and screw the back edge of the standard *c* one way or the other in the rear and widened end of its slot in the beam *a*, thereby adjusting the draught of the beam horizontally to make the plough run further on or off the land-side, and allow for variations in the draught whether by one, two, or three horses. The link *r*, extending from the mould-board *f* to the under side of the rear end of the beam *a*, is connected thereto by a bolt passing through a slot, which bolt has to be loosened when the plough is adjusted horizontally. This brace makes a firm connection and support after the adjustment has been effected.

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

1. Adjusting the draught vertically by the wedge *n*, beneath the cross-pin or *T*-front end of the plough standard, in combination with the wedge *l*, to clamp the standard in the beam, as set forth.
2. I claim the screw-bolt *i*, or its equivalent, fitted as specified, in combination with the standard *c*, introduced in a mortise of the beam so as to adjust the draught horizontally, as set forth.

In witness whereof I have hereunto set my signature this 6th day of January, A. D. 1867.

JOSEPH FOWLER.

Witnesses:

F. B. STOCKBRIDGE,

GEO. E. DUNN.