

(No Model.)

J. P. WEATHERMAN.
GRUB PLOW.

No. 485,308.

Patented Nov. 1, 1892.

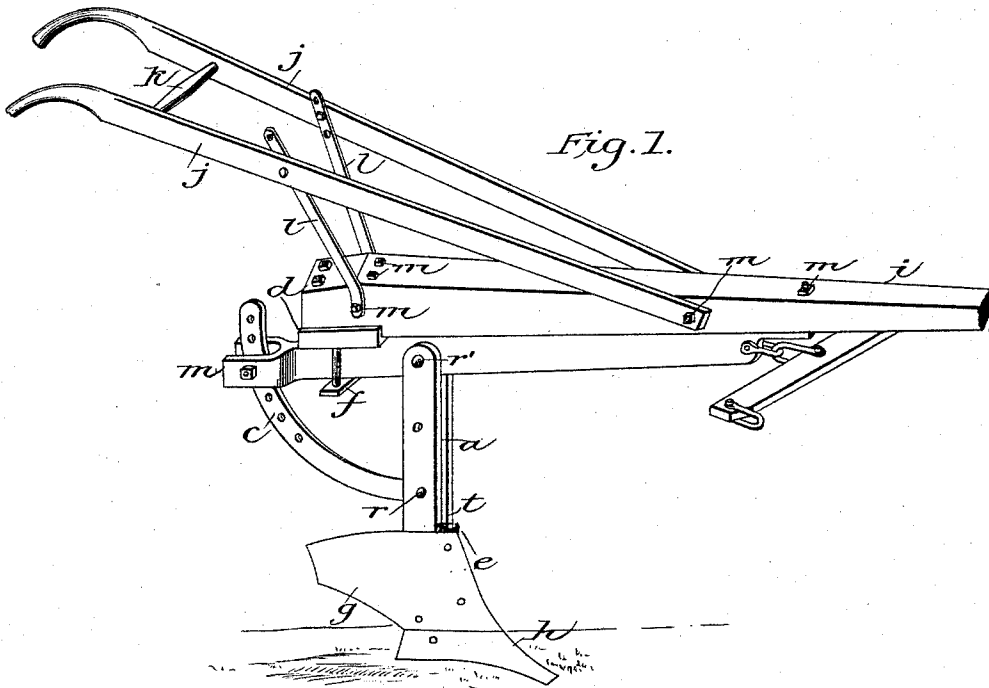


Fig. 1.

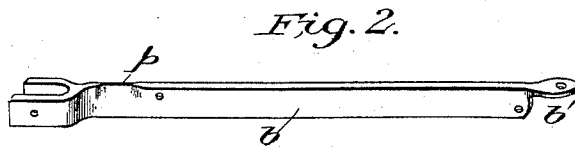


Fig. 2.

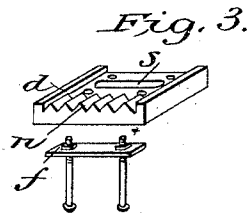


Fig. 3.

Witnesses.

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UNITED STATES PATENT OFFICE.

JAMES P. WEATHERMAN, OF HIGHLANDVILLE, MISSOURI.

GRUB-PLOW.

SPECIFICATION forming part of Letters Patent No. 485,308, dated November 1, 1892.

Application filed February 27, 1892. Serial No. 423,098. (No model.)

To all whom it may concern:

Be it known that I, JAMES P. WEATHERMAN, a citizen of the United States, residing at Highlandville, in the county of Christian and State of Missouri, have invented a new and useful Grub-Plow, of which the following is a specification.

My invention relates to improvements in plows used for breaking new, grubby, stumpy, or rocky land, in which a forked shank is hinged to an iron beam and held in position by a curved regulator and brace, all being firmly fastened to a tongue; and the objects of my improvement are, first, to provide a means by which the point of the plow may be thrown forward or backward and at the same time turn the point up or down; second, to afford facilities for the proper adjustment of the mold-board and shear by moving them up or down on the shank; third, to afford facilities for the use of a twisting mold-board, straight shovel, or a bull-tongue; fourth, to provide a means by which the plow may be thrown to or from the land, and, fifth, to take the weight off the horses' necks. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a detailed view in perspective of the plow as it appears in working order. Fig. 2 is a similar view of the beam, and Fig. 3 is a view of the adjusting-plate.

Similar letters refer to similar parts throughout.

The tongue *i* and the beam *b*, secured to the under side of the tongue, constitute the framework of the plow. To the sides of the tongue are bolted the handles *j j* and the handle-braces *l l*. The latter are provided with a series of holes for elevating and lowering the handles. To the beam *b* is hinged the shank *a*, and to the latter is secured the curved regulator *c*, which is hinged in the slot *t* of the shank *a* at *r*, and thence passes through a fork in the rear end of the beam, where it is secured by a key-bolt *m*. The shaper *e* and the mold-board *g* are secured to the shank by means of two bolts. The shear *h* is attached to the mold-board by means of a tie from behind. Bolted to the under side and at the

rear end of the tongue is the land-gage *d*. The hitch is at the front end of the beam. The beam *b* has a fork in the rear end three inches long to receive the regulator *c*, and immediately in front of this fork is a bevel *p*, at which point the beam is firmly held in any desired notch *n* of the land-gage *d* by means of the clamp *f*. Just in front of this point is a hole in the beam, where the shank *a* and the beam are hinged together by a rivet *r'*. At the front end of the beam is a hole for attaching the doubletree, which locates the hitch under the tongue and lifts the weight off the horses' necks. Just in front of this the beam is flat laterally where it is bolted to the tongue. To the under side, at the rear end of the tongue, is bolted the land-gage *d*, provided on the under side with a series of notches *n* to receive the bevel *p* of the beam. A slot *s* extends across the center of the land-gage, in which the bolts for the clamp *f* pass. By means of this arrangement the plow may be moved to or from the land.

The shank *a*, previously referred to, is hinged to the beam *b* at *r'*. A slot *t* extends from the base to the top, in which the beam-regulator and mold-board bolts all work. A curved regulator *c* is hinged in the slot *t* at *r*, and at the upper end, where it passes through the fork of the beam, is a series of holes, by which means the point of the plow may be thrown forward or backward and at the same time turn the point up or down. When a twisting mold-board *g* is to be used, the shaper *e* is to be placed on the shank under the mold-board, which device gives it the proper position or set, and by means of concentric bolt-holes the two are held in place by two bolts, which reach through the slot *t*. By this last arrangement the shovel may be raised or lowered on the shank. By simply omitting the shaper a straight shovel or bull-tongue may be used. The clamp *f* holds the beam in any desired notch of land-gage *d*. A curved colter made to pass through slot *t* and extend to the point of plow may be used. A tie is placed at the back of the mold-board and shear, to which both are firmly bolted, thus securing the shear.

I am aware that prior to my invention plows have been made with a tongue. I therefore do not claim such as my invention; but

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

1. The combination, with a tongue, of a plow-beam pivoted thereto at its front end, a land gage or plate *d*, secured between the rear end of the tongue and plow-beam for the lateral adjustment of the rear end of said beam, and the clamp *f*, substantially as shown and described.

2. A plow-beam having a forked rear end and a bevel edge *p*, the pivoted shank *a*, the adjusting-brace *c*, the land-gage *d*, and the undercut recess for the draft-clevis, in com-

bination with the tongue pivoted to the front end of the plow-beam and adjustable on the beam at the gage-plate, substantially as shown and described.

3. The plow-beam *b*, having the forked rear end, the bevel-edge section *p*, and the undercut draft-recess *b'*, substantially as shown and described.

4. The land gage or plate *d*, having the slot *s* and the notches *n* upon the under side, substantially as shown and described.

JAMES P. WEATHERMAN.

Witnesses:

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B. NICHOLAS.