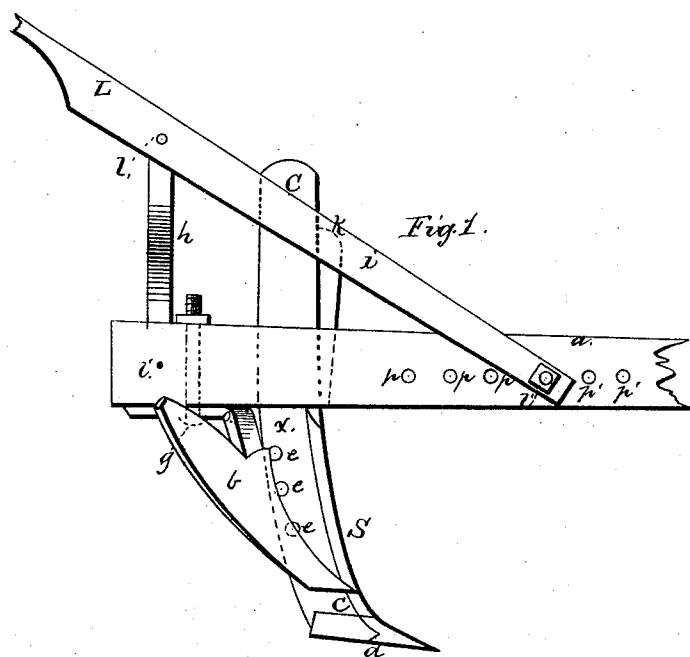


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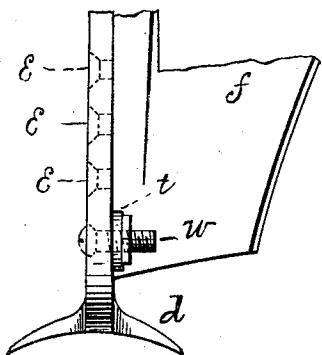
PLOWS.

No. 185,108.

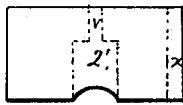
Patented Dec. 5, 1876.



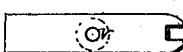
*Fig. 4.*



*Fig. 2.*



*Fig. 3.*



Attest:

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Inventor:

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# UNITED STATES PATENT OFFICE.

BENJAMIN F. JONES, OF BEAUREGARD, MISSISSIPPI.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 185,108, dated December 5, 1876; application filed October 18, 1875.

*To all whom it may concern:*

Be it known that I, BENJAMIN F. JONES, of the town of Beauregard, Copiah county, Mississippi, have invented new and useful Improvements in Plows, of which the following is a specification:

The object of my invention is to so construct a plow that it may be used as a subsoiler only, as a turning-plow only, or as a subsoiler and turning-plow at one and the same time in breaking up land. In cultivating crops where but little earth is to be thrown to small vegetables, a small mold-board may be used.

In the accompanying drawing, Figure 1 represents the subsoiler and plow attached to a beam; Fig. 2, a block which is to be attached near the rear end of, and under, the plow-beam after removing the mold-board *b*, which block is intended to open a small trench for receiving seeds, Fig. 3 being an upper-edge view of the block, of which Fig. 2 is a side view. Fig. 4 represents a rear view of the mold-board, and its mode of attachment to the subsoiler.

The device, with its attachments, is more particularly described as follows: In Fig. 1, *a* represents the plow-beam; *c c*, the subsoiler, and *d* the foot of subsoiler; *k*, the wedge with which the subsoiler is secured at any given point in the mortise through the beam; *e e e e*, the holes through the bar of subsoiler, and *S* the point where a lug, *t*, of metal is welded on the back part of the mold-board, which lug of metal is perforated to receive a bolt, *w*, which bolt fastens the mold-board to the bar of subsoiler, the mold-board being also secured to the plow-beam *a* by means of the arm *o* and bolt *g*. The plow-handles are represented by *i i*, *h h* showing the uprights that support the handles; *l l*, the points of connection of the uprights *h h* with the handles *i i*, and *l'* the point where the uprights are connected with plow-beam by means of a bolt, *l''*, showing handles *i i* connected with plow-beam.

The handles *i i* may be elevated at the points *l l* by withdrawing a bolt, that passes through them at *l''*, moving them forward, and securing them at any one of the holes *p p p*;

or they may be depressed by carrying the ends back to either of the holes *p p*, the handles moving freely at *l l* on the uprights *h h*, and the uprights moving freely on a bolt at *l'*, where they are secured to the beam *a*.

When it is desirable to subsoil only, the mold-board *b* can be removed; and to subsoil and plow at one and the same time, draw the bar *c c* downward and wedge it in the beam at the proper point. If the turning-plow only is needed, push the bar *c c* upward until the foot *d* comes in contact with the point of the mold-board *b*, when the foot *d* will form a continuation of the point of the mold-board *b*, and will also serve to keep the plow steady when running, answering the purpose of a bar, which is necessary in all other turning-plows known to me.

In order to use the block, Fig. 2, for opening a trench for the reception of seeds, detach the mold-board *b* and secure the block to the beam by means of the bolt *g*, the rear of the bar *c c* fitting into the groove *x*, which prevents any lateral motion of the block. The opening through the block, as shown at Fig. 2, is larger from the lower edge up to 2, in order that the head of the bolt *g* may pass into the block that far, the hole (a *V*) having a diameter equal to that of the bolt used, which enables the same bolt to secure either the mold-board or block to the beam.

Any one of the agricultural implements known as a "sweep," "bull-tongue," "half-shovel," "whole shovel," or "scraper," may be attached to the bar *c c*, if lugs of metal are welded to those implements in order to secure them to the bar *c c*, and the above-named implements may be made without points, as the foot *d* will serve that purpose in every case. A harrow may be also secured to the beam *a* by means of the mortise through the beam and the screw *g*, after removing the bar *c c* and mold-board *b*.

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

In combination with the slotted plow-beam *a*, the subsoiler *c d*, having a series of perforations along its rear edge, and vertically adjustable through the plow-beam, the mold-

board *b*, provided with the lug *t* on its bottom, and connected to the subsoiler by the bolt *w*, and also connected to the plow-beam by means of the angular bar *o*, and the vertical adjusting-bolt *g*, all substantially as and for the purposes herein set forth.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

BENJAMIN F. JONES.

Witnesses:

W. K. DEASEN,

J. S. DICKERSON.