S. J. Leach.

Plow.

No. 72305 Patented Dec. 17, 1867

Fig. 2.

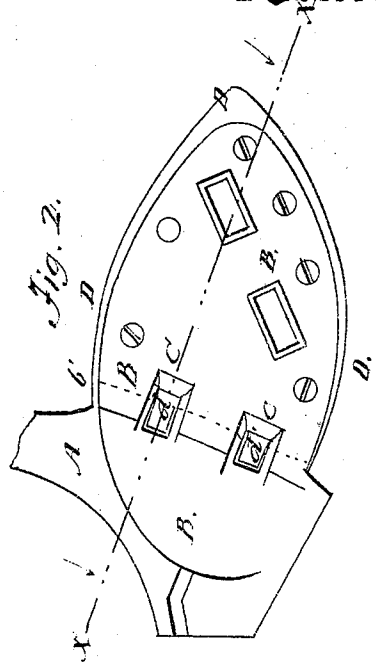


Fig. 3.

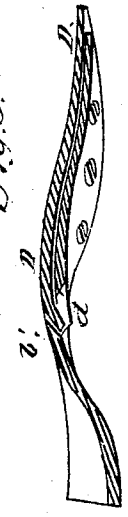
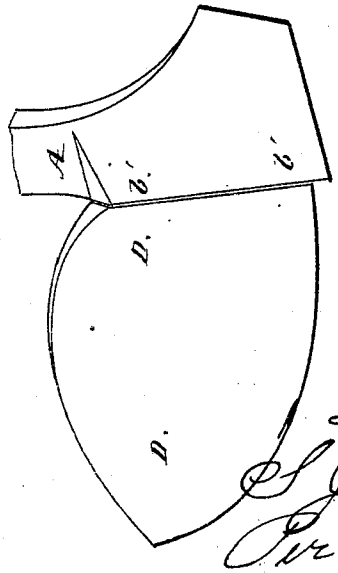


Fig. 1.



Witnesses;
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United States Patent Office.

S. J. LEACH, OF TUSCALOOSA, ALABAMA.

Letters Patent No. 72,305, *dated December* 17, 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, S. J. LEACH, of Tuscaloosa, in the county of Tuscaloosa, and State of Alabama, have invented a new and useful Improvement in Ploughs; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an outside view of the mould-board of my improved plough.

Figure 2 is an inside view of the same.

Figure 3 is a detail sectional view of the same, taken through the line *x x*, fig. 2.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved plough, provided with a detachable facing formed of wood or other material, to which adhesive soils will not adhere and clog the plough, which shall be cheap, more durable, and more effective than the ploughs ordinarily used in such soils; and it consists in facing the mould-board of the plough with a thin detachable sheet or plate of wood, steel, or other suitable material, and in forming the mould-board of the plough with a shoulder and slots or sockets to receive the forward edge and tongues of the facing-plate; the whole being constructed and arranged as hereinafter more fully described.

A is the standard, and B is the mould-board of the plough, which may be cast in one piece in the ordinary manner. The mould-board B is formed with a shoulder, *b'*, formed upon it at the point at which the forward end of the facing-plate should end. The shoulder *b'* should project so far as to equal the thickness of the facing-plate, and should project rearward, so as to form an acute angle with the mould-board B. C are two or more slots or sockets formed in the mould-board B, for the reception of tongues formed upon the forward end of the facing-plate. D is the facing-plate, which is made of a thin sheet or plate of wood, steel, or other substance, to which the soil in which the plough is to be used will not adhere. When the plate D is made of wood, the thin board of which it is formed is steamed and bent or pressed into the exact form of the mould-board of the plough; and when made of steel, it is swaged into proper shape. The forward edge of the facing-plate D is so formed as to fit into the inclined or grooved shoulder *b'* of the mould-board B, and upon it are formed two or more tongues, *d'*, fitting into the slots or sockets C, formed in the mould-board B for their reception, as herein-before described, so as to render the connection between the facing-plate and mould-board firmer, closer, and more secure than it otherwise would be. The facing-plate D may be secured to the mould-board by screws or bolts passing through the said facing-plate and said mould-board, so as to hold all parts of the facing-plate close up against the mould-board.

By this construction the cast-iron mould-board of the plough supports the facing-plate D, and keeps it in proper form, and at the same time enables the said facing-plate to be removed or attached easily, quickly, and conveniently, whenever desired.

I claim as new, and desire to secure by Letters Patent—

1. Facing the mould-board of a plough with a thin detachable sheet or plate of wood, steel, or other suitable material, substantially as herein shown and described, and for the purpose set forth.

2. Forming the mould-board B of a plough with a shoulder, *b'*, and with slots or sockets C, to receive the forward edge and tongues of the facing-plate D, substantially as herein shown and described, and for the purpose set forth.

S. J. LEACH.

Witnesses:

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J. H. FITTS.