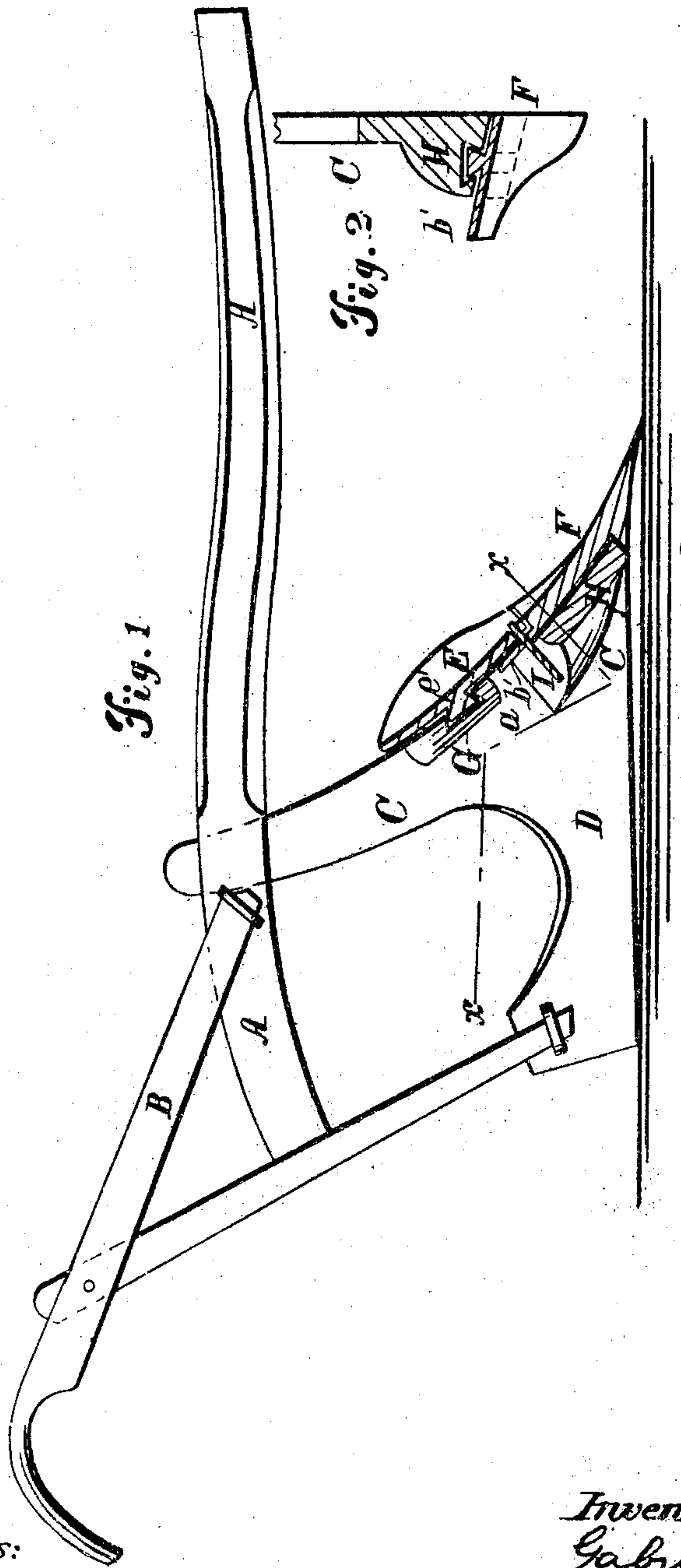


G. UTLEY.

Plow.

No. 78,339.

Patented May 26, 1868.



Witnesses:
H. C. Ashkettle
J. A. Fraser

Inventor:
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United States Patent Office.

GABRIEL UTLEY, OF CHAPEL HILL, NORTH CAROLINA.

Letters Patent No. 78,339, dated May 26, 1868.

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, GABRIEL UTLEY, of Chapel Hill, in the county of Orange, and State of North Carolina, 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 a side view of my improved plough, part being broken away, to show the construction.

Figure 2 is a detail sectional view of the same, taken through the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

My invention has for its object to furnish an improved plough, so constructed and arranged that the mould-board and point may both be detached from the plough when desired, and so that the said parts may not be weakened by having bolt-holes formed in them; and it consists in the construction of the mould-board and point, and of the parts by which they are secured to the frame of the plough.

A is the plough-beam; B are the handles; C is the standard; D is the land-side; E is the mould-board, and F is the point.

The mould-board E is formed with a dove-tailed tongue, *e'*, upon its lower side, fitting into a dove-tailed groove in the forward side of the arm G, cast solid upon the side of the standard C, the tongue *e'* and groove in the arm G running at right angles with the plane of the land-side D of the plough, as shown in fig. 1.

The point F is also formed with a dove-tailed tongue, *b'*, upon its under side, fitting into a dove-tailed groove in the forward side of the arm H, cast solid upon the side of the lower part of the standard C, said tongue extending up in the rear of the lower part of the mould-board E, as shown in fig. 1, to which it is secured by a pin, I, passing through the said mould-board and through the upper part of the said tongue.

The pin I may be secured in place, and prevented from working out, by a key passed through its inner end, or by other convenient means.

The dove-tailed tongue of the point F, and the dove-tailed tongue of the mould-board E, run at right angles to each other, so that, when the said point and mould-board are secured to each other by the pin I, each may bind the other in place.

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

1. Securing the mould-board E to the plough by means of the dove-tailed tongue *e'*, formed upon its inner side, fitting into a dove-tailed groove formed in the forward side of the arm G, cast solid upon the side of the standard C, substantially as herein shown and described, and for the purpose set forth.

2. Securing the point F to the plough by means of the dove-tailed tongue *b'*, formed upon its under side, and fitting into a dove-tailed groove formed in the forward side of the arm H, cast solid upon the side of the lower part of the standard C, substantially as herein shown and described, and for the purpose set forth.

3. Connecting the mould-board E and point F to each other by means of the pin I, passing through the lower part of the said mould-board E, and through the extended end of the tongue *b'*, substantially as herein shown and described, and for the purpose set forth.

4. The combination of the tongued point F, tongued mould-board E, grooved arms H and G, and standard C, with each other, substantially as herein shown and described, and for the purpose set forth.

GABRIEL UTLEY.

Witnesses:

MATTHEW KING,

CHAS. E. WATSON.