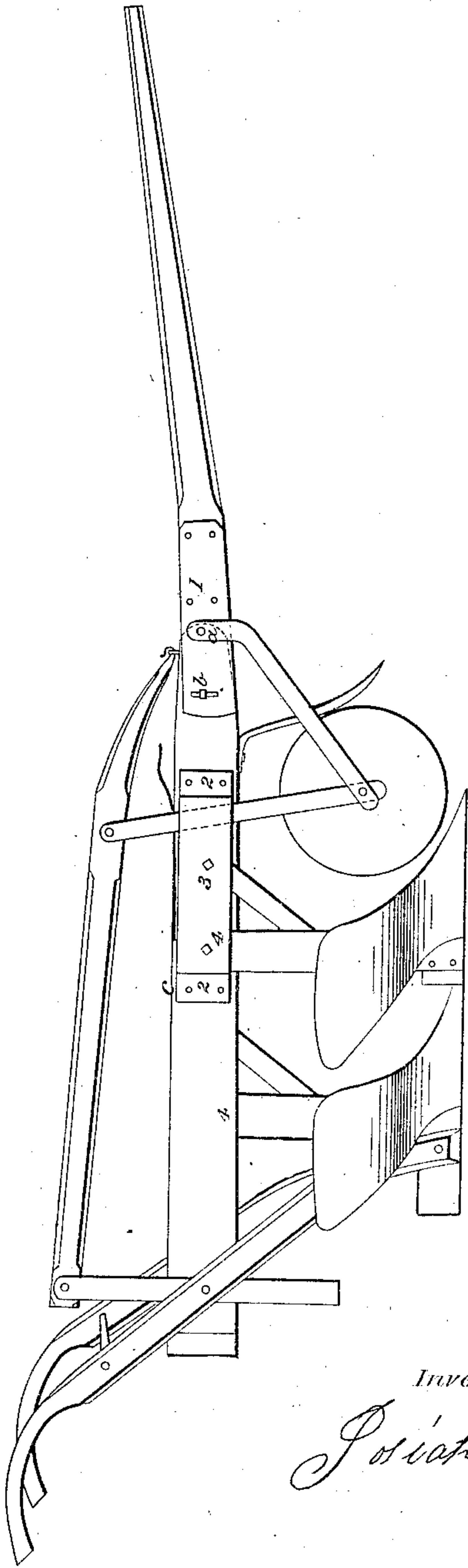


J. Fish,

Plow.

No. 63377.

Patented Apr. 2. 1867.



Witnesses:

H. B. Woods
N. Harvey

Inventor:

Joshua Fish

United States Patent Office.

JOSIAH FISH, OF SMELSER, WISCONSIN.

Letters Patent No. 63,377, dated April 2, 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, JOSIAH FISH, of the town of Smelser, in the county of Grant, and State of Wisconsin, have invented a new mode for constructing and operating Double Ploughs; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters and figures marked as reference thereon, making a part of this specification.

I take a beam of any of the known forms and attach a tongue thereto. At the end of the tongue that joins the beam I bolt plates of iron, one on each side, as shown at Figure 1, which passes back on each side of the beam sufficient to form a strong connection. Through these plates, near their centre, I pass a bolt, marked *a*, which passes through the point of the beam, thus forming a hinge. At the back end of these plates is a slot, marked *b*. The principle of this hinge is to allow the tongue to be raised or lowered to give any required depth of furrow, and there held with a bolt passing through the slot *b* that tightens with a nut. To enable me to attach my team and change my plough to the right or left I bolt a plate two and one-half ($2\frac{1}{2}$) inches broad and ten (10) inches long nearly over the point of the forward plough by passing a bolt through near the centre of the plate and beam. At the back end of this plate is a slot with a bolt passing through it, and the beam allowing the plate to turn on its centre bolt. I attach my whipples to the forward end of this plate, with a bolt passing through them and a strap made fast to the plate behind them. To enable me to attach two ploughs I take a bar of iron twenty inches long and four inches wide, marked Figure 3, and to this bar I attach a plough of any of the known forms near the back end, marked *C*. I bolt this bar to the beam, near its joint, on the right side, (standing behind the plough.) On the left-hand side of the beam, near its joint, I attach a bar similar to the first, bolting it to the beam and running back with an angle until it is any required distance from the beam for another plough, and then turns parallel with the beam and runs nearly its length, where it is made fast to the beam with bolts holding it the same distance from the beam as where it took the parallel. To this bar I attach the second plough the same as the first, far enough behind to admit the "foul trash" and stubble to pass between them. This plough has handles as other ploughs.

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

The plate connecting the tongue and beam, marked fig. 1, together with the plate attaching my team to the plough, and bars that my ploughs are attached to, for the uses as set forth in my description and specification.

JOSIAH FISH.

Witnesses:

H. B. WOOD,
N. HARVEY.