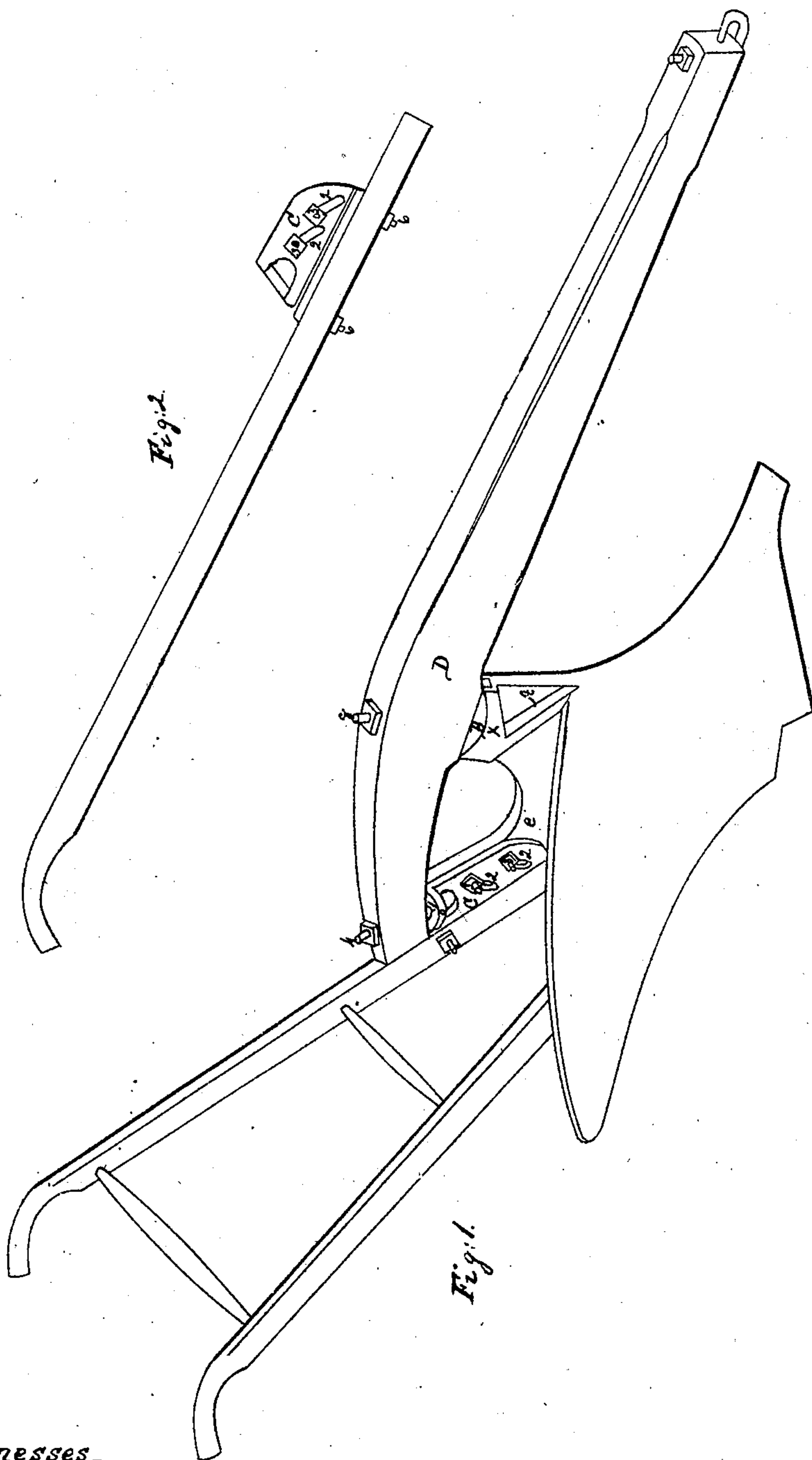


Smith & Strasser

Plow

N^o 73550

Patented Jan. 21, 1868



Witnesses.

James J. Johnston
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George K. Smith
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United States Patent Office.

GEORGE K. SMITH AND JOSEPH STRASSER, OF ALLEGHENY CITY,
PENNSYLVANIA.

Letters Patent No. 73,550, dated January 21, 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 we, GEORGE K. SMITH and JOSEPH STRASSER, of the city and county of Allegheny, in the State of Pennsylvania, have invented a new and useful Improvement in Ploughs; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon.

The nature of our invention consists in elevating, depressing, and otherwise changing the position of the point of a plough-beam with relation to the mould-board, by the use of the means hereinafter described.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation. In the accompanying drawings, which form part of our specification—

Figure 1 is a perspective view of a plough provided with our improvement.

Figure 2 is a side view of the handle of a plough having a "low" or narrow land-side, said handle being provided with our improved graduate for regulating the elevation or depression of the point of the plough-beam.

We construct the plough in any of the known forms; but we provide the beam-standard A with a cap, B, the under face of which is circular in form, and provided with a tongue, 5. The cap B is fitted into a cavity made in the upper end, X, of the standard A. The cap B is provided with an elongated slot or opening, to allow room for the motion of the cap, and for the bolt 8 of the beam D, in elevating and depressing its point. The back end of the beam D is held firmly to the cap O of the graduate C, by means of a bolt, 4, which passes up through a slot, 1, and beam D. The longitudinal plane of the slot 1 is at right angle to the longitudinal plane of the beam D. The graduate C is bolted to the land-side *e* of the plough by means of bolts 3, and is provided with two slots or elongated openings, 2, which will allow for raising or lowering it on the land-side *e*. The graduate C can be applied to ploughs having a narrow or low land-side; in such case the graduate is secured to the handle by means of bolts 6, as shown in fig. 2.

As the construction and arrangement of the several parts of our improvement will readily be seen and understood by the skillful mechanic, by reference to the accompanying drawings, we will, without further description of its construction, proceed to describe its operation, which is as follows:

We raise or lower the point of the beam D by loosening up the bolts 8 and 3; we then adjust the graduate C to suit the desired elevation or depression of the point of the beam D; we then secure the graduate to the land-side by means of the bolts 3; we then tighten up the bolt 8. We give the plough land in the ordinary manner.

We wish it clearly understood that we do not confine ourselves to the exact form of the cap B and graduate C herein described, for the form of these may be varied and a similar result obtained.

Having thus described the nature, construction, and operation of our improvement, what we claim as of our invention, is—

1. The combination of the graduate C with the beam D, constructed, arranged, and operating as herein described, and for the purpose set forth.

2. The combination of the movable cap B with the beam D and graduate C, constructed, arranged, and operating as herein described and for the purpose set forth.

GEORGE K. SMITH,
JOSEPH STRASSER.

Witnesses:

A. C. JOHNSTON,
JAMES J. JOHNSTON.