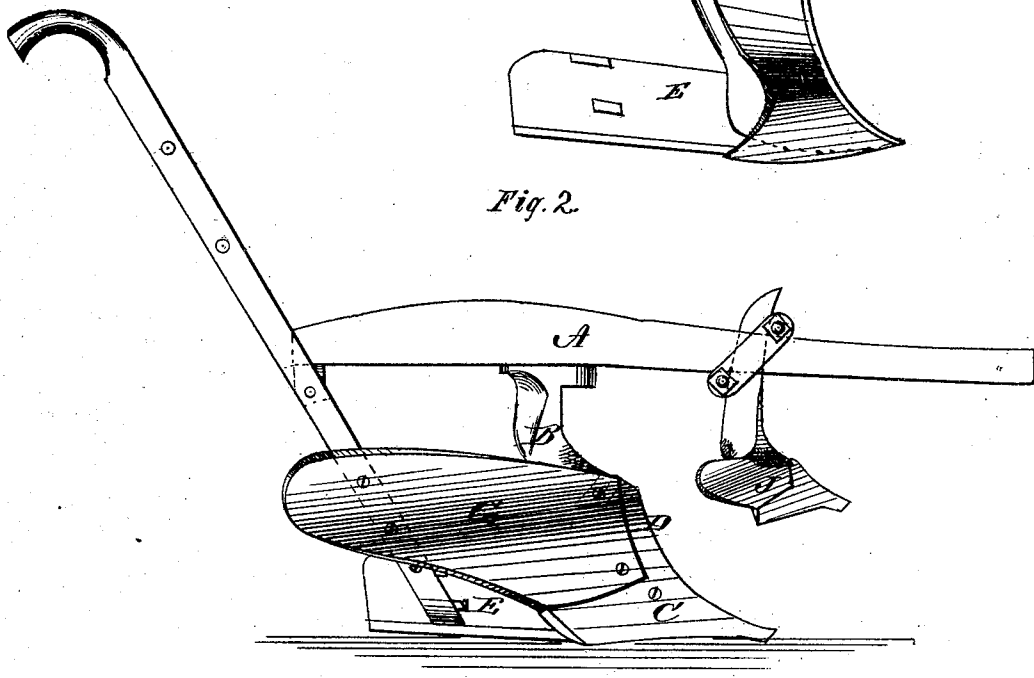
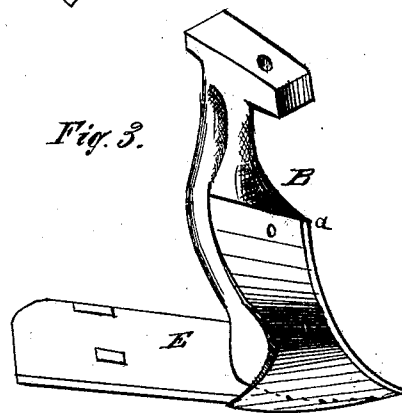
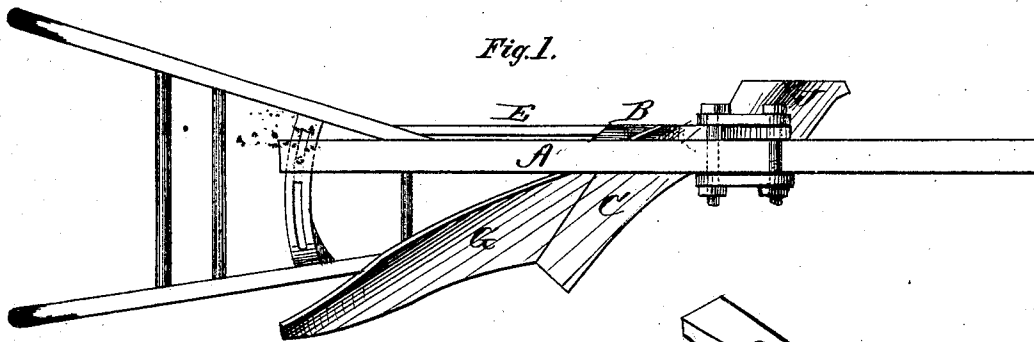


J. OLIVER.
Plows.

No. 144,785.

Patented Nov. 18, 1873.



WITNESSES:
P. C. Distenfeld
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INVENTOR
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per:
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UNITED STATES PATENT OFFICE.

JAMES OLIVER, OF SOUTH BEND, INDIANA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **144,785**, dated November 18, 1873; application filed September 20, 1873.

To all whom it may concern:

Be it known that I, JAMES OLIVER, of South Bend, in the county of St. Joseph and State of Indiana, have invented certain new and useful Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to that class of plows which have a colter extending upward from the plow-point; and it consists in the construction of the standard and mold-board, bringing the same forward to the proper thickness to meet and form a rest for the back of the upright colter-point against the mold-board, and at the same time maintaining a true line or circle on the working-surface of both the mold-board and colter-point.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view, and Fig. 2 a side elevation, of a plow embodying my invention. Fig. 3 is a perspective view of the plow-standard.

A represents an ordinary plow-beam, to which the standard B is attached. C is the plow-point, with upward-projecting colter D. E is the land-side, and G the mold-board, of the plow. The mold-board thus extended is

formed to conform with the circle and furrow-line or working-surface of the colter-point, and leaves or forms an unbroken surface from the front edge of the colter to the heel of the mold-board. By this means the clogging and sticking behind the colter-point are obviated, strength is added to the colter, and an easier and more natural turning mold-board is formed. The curvature of the mold-board and colter is such that, in grinding and polishing, the grindstone fits perfectly over all the surface. J represents the jointer attached to the plow-beam A above the point of the plow, and which is so constructed as to conform with the same curve as the mold-board and colter, and on the same principle.

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

The standard B, extended forward, as shown at *a*, the mold-board and land-side extending forward even with the standard, forming a uniform curve, which forms a seat for the colter D, the part C being supported by the enlarged foot of the standard, as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JAMES OLIVER.

Witnesses:

GEO. PFLEGER,
W. G. GEORGE.