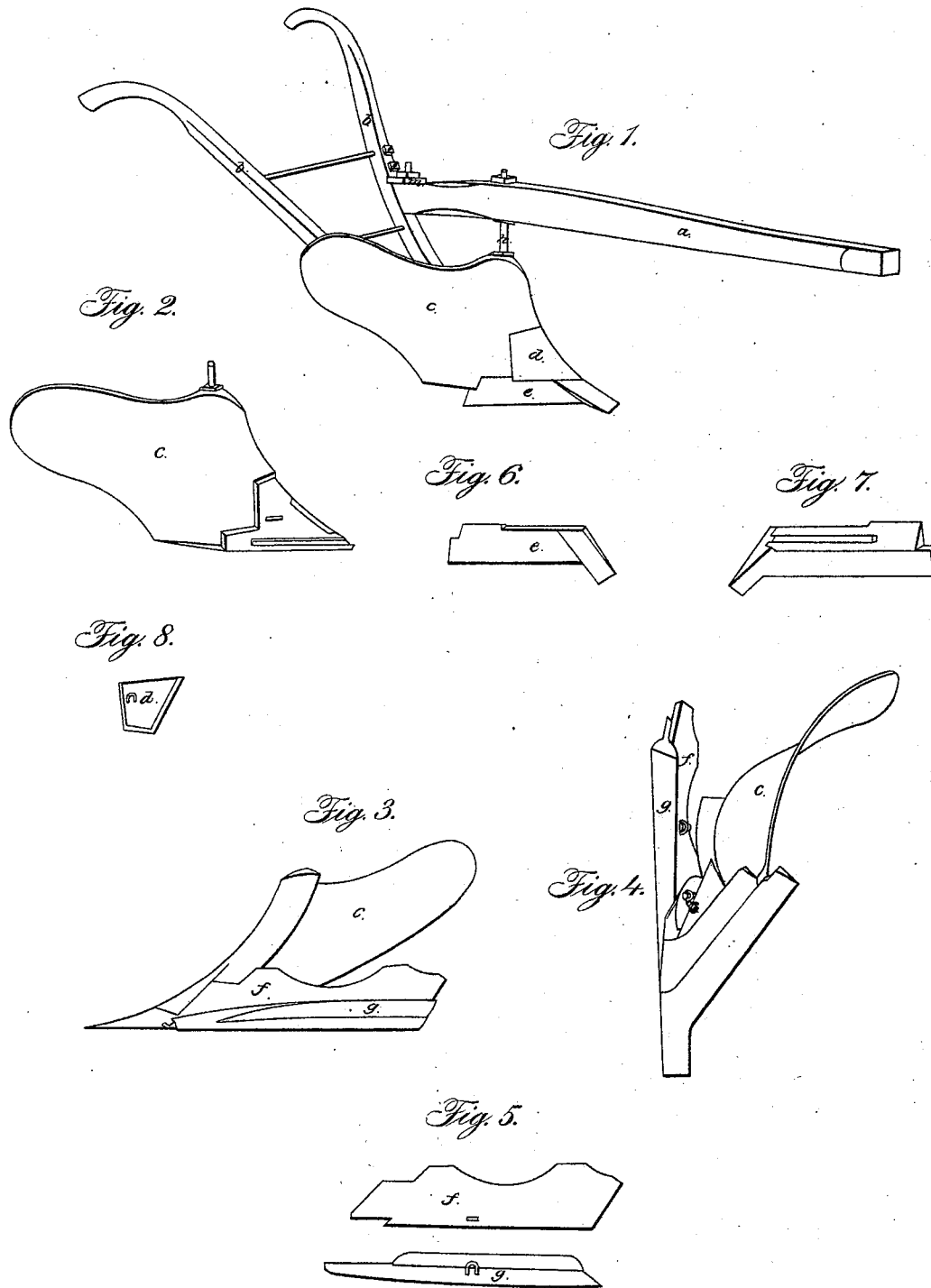


D. B. HAIGHT.

Plow.

No. 5,981.

Patented Dec. 26, 1848.



# UNITED STATES PATENT OFFICE.

DAVID B. HAIGHT, OF PERRYVILLE, NEW YORK.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 5,981, dated December 26, 1848.

*To all whom it may concern:*

Be it known that I, DAVID B. HAIGHT, of Perryville, in the county of Madison and State of New York, have invented certain new and useful Improvements in Plows, of which the following is a full and exact description, reference being had to the annexed drawings of the same, making part of this specification, in which—

Figure 1 is a perspective view of a plow with my improvements applied thereto. Fig. 2 is a view of the mold-board with the point and shin-piece removed from it. Fig. 3 is an elevation of the landside. Fig. 4 is a view of the sole or bottom. Fig. 5 is a view of the landside and of the removable shoe detached therefrom. Fig. 7 is a perspective view of the point detached from the mold-board, the bottom side being upward. Fig. 8 is a perspective view of the shin-piece in an inverted position.

The same letters indicate the same parts in all the figures.

The nature of my invention and improvement consists in attaching the beam to the parts with which it is connected in such a manner that its front end can be raised, lowered, or moved to the right or left, and held there for the purpose of adjusting properly the point of draft; also, in attaching the point to the mold-board without bolts or loops, and in affixing a removable shoe or guard to the landside, which can be removed as often as it becomes too much worn to perform its office properly, whereby the landside is effectually protected from injury and rendered as durable as any other part of the plow.

All plowmen are aware of the loss of time (to say nothing of the annoyance) occasioned by the plow-point getting loose in consequence of the screws which secure it getting turned by being so near the ground as to catch upon roots, stones, &c., which is very often the cause of both the point and the front edge of the mold-board being broken. A wedge near the ground is liable to the same objection, but wedges or screws farther from the ground are not deranged in this way. The manner in which I have secured the point to the mold-board without either screws or wedges effectually does away with this difficulty.

In the accompanying drawings, *a* is the beam, and *b b* the handles, which are all made of wood in the usual or any approved form.

*c* is the mold-board, having a recess on the lower angle of its landside end to receive the shin-piece *d* and the share or point *e*, which has a dovetail tapering tongue, *e'*, Fig. 7, on its lower edge, which corresponds to a groove in the mold-board made to receive it. The tongue and groove are both largest on the end adjacent to the landside, from whence the tongue is inserted into the groove. By this arrangement every obstruction which the point meets with while advancing and every concussion given to it tend to tighten and fix it more securely in its place. It is further guarded against being displaced by the shin-piece, the lower edge of which fits into a recess formed in the upper edge of the share, rendering it impossible to displace the share without also removing the shin-piece.

The landside *f* is secured to the mold-board by loops and wedges or otherwise. To the under edge of the landside the sole-piece *g* is also secured by loops and wedges. This piece, when worn so much as to interfere with the proper action of the plow, is thrown aside and another substituted in its place at light cost.

From the top of the shin of the plow a bar of wrought-iron, *h*, projects upward, with a screw cut upon it and two nuts fitted thereto. This bolt passes through the beam, one nut being on the upper and the other on the under side of the same, to hold it at any required point of elevation and to admit of its being raised and lowered to adjust the point of draft vertically.

The beam is secured to the landside-handle by means of a clamp-screw, *i*, passing through the slot of a bracket, *m*, secured to the handle by screw-bolts. The slot in the bracket admits of the beam being turned horizontally on the bolt *h* as a center to adjust the point of draft horizontally, and when in the proper position the clamp-screw *i* is tightened to hold it there.

There may be affixed to the beam a colter, in any of the usual modes.

The mold-board, the landside with its removable sole, shin-piece, and point, I prefer to

make of cast-iron; but, if deemed advisable, they may be made of any other suitable material.

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

Interlocking the share and mold-board together by means of a tapering dovetailed tongue formed on the former, which enters a

similarly-shaped groove made in the latter, substantially as herein set forth.

In testimony whereof I have hereunto signed my name in presence of two witnesses.

DAVID B. HAIGHT.

Witnesses:

RUFUS AMES,

RUFUS H. NICHOLS.