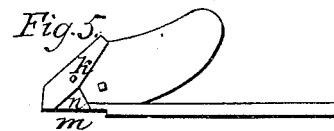
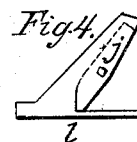
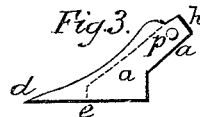
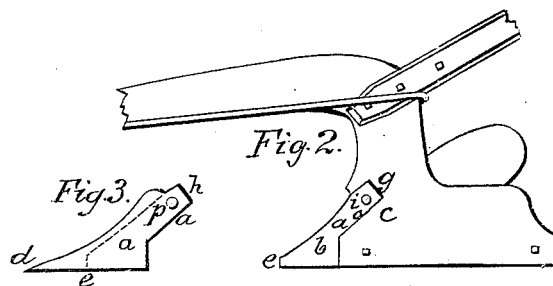
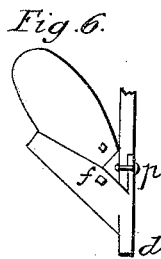
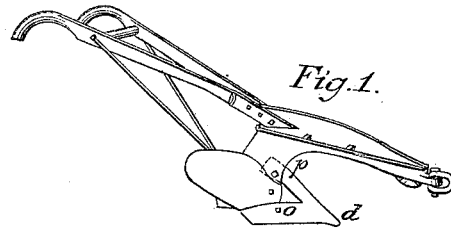


G. W. Hildreth.

Plow Point Attachment.

N^o 113,665.

Patented Apr. 11, 1871.



Witnesses.

Joseph Clark.
Daniel McKim

Inventor.

George W. Hildreth

UNITED STATES PATENT OFFICE.

GEORGE W. HILDRETH, OF LOCKPORT, NEW YORK.

IMPROVEMENT IN ATTACHING PLOW-POINTS.

Specification forming part of Letters Patent No. 113,665, dated April 11, 1871.

To all whom it may concern:

Be it known that I, GEORGE W. HILDRETH, of Lockport, in the county of Niagara and State of New York, have invented certain Improvements in the Manner of Attaching Plow-Points to the Plow, of which the following is a specification.

My invention relates to the manner of attaching a plow-point, which is made separate from the main plow for the purpose of renewing the wearing part, as it wears out much faster than the rest of the plow, and for a heavy strong plow to stand the power of from four to twelve horses, (as our contractors' plow has done,) it becomes a very important matter for the purpose of grading on railroads, canals, &c. The former plan of fastening on the points with one or even two bolts on the mold-board side of the plow, with the small amount of "lap" that the point has on the plow, compared with the distance that the extreme forward end of the point has to project beyond any bearing under the point to support it, makes it next to impossible to sustain it, especially when it is considered that this extreme forward end of the point has to stand the entire power applied to the plow. Therefore the necessity of something more substantial for that purpose. I have made this kind of a plow for many years with the old-fashioned point upon it, but never was perfectly successful until lately, by using the improvement herein claimed and specified.

In the accompanying drawings, Figure 1 is a perspective view of the mold-board side of the plow. Fig. 2 is a view of the landside of the main stock of the plow. Fig. 3 is a landside view of the point to be attached to the main stock of the plow. Fig. 4 is a plan of Fig. 3. Fig. 5 is a plan of Fig. 2. Fig. 6 is a front view of the point when attached to the main stock of the plow, ready for use.

Similar letters of reference indicate corresponding parts in the several figures of the drawings.

Fig. 1 is a view of a strong truss-plow beam to which my point is attached, showing one bolt at *o* on the mold-board side, and another at *p* on the extended "shim-piece," also seen at *p* in Figs. 3 and 6.

Fig. 2 shows the stock of the plow on the landside, with a recess or sink at *i* from one-fourth to a half inch deep, to receive the extended shim-piece *a* in Fig. 3. So much of it as is on the right hand of the dotted line laps onto the stock, Fig. 2, and the upper end of it is sunk or bedded into said stock its thickness, or thereabout, with a good bearing on its upper edge at *g*, so that a strong pressure on the point at *d*, Fig. 3, cannot raise it by prying over the nose at *e*, especially when you add the bolt, which goes through the extended shim and stock at *i*, Figs. 2 and 6. With this extended shim made firm, as above described, we sustain the point *d*, Figs. 1, 3, and 6, so that a depression of it is almost impossible, when with the ordinary fastening the point will give or spring enough to break off the nose of the stock at *e* and ruin the stock and plow, which is well understood by every man that has had much experience with plows, especially for heavy work. The long leverage from *h* to *e* in Fig. 3 to sustain the point *d*, together with the width of the shim up and down, and the boxing of the upper end of it into the stock, and the bolt at *p*, is what I rely upon to accomplish the desired object.

What I mean by the extended shim-piece is that part of the point which laps onto the stock of the plow on the landside. When Fig. 3 is placed upon Fig. 2, where it belongs, the surface of it is flush with the landside, or nearly so.

I do not claim the ordinary shim-piece or cutter, commonly used as a substitute for a colter for cutting turf, which stands above the surface of the mold-board and point, and not bolted to the main stock.

I claim—

The plow-point, when constructed with the shim-piece *a*, boxed into the stock upon the landside and bolted thereto, lapping over said landside from *e* to *h*, as herein set forth and shown, for the purpose specified.

G. W. HILDRETH.

Witnesses:

JOSEPH CLARK,
DANIEL MCKIM.