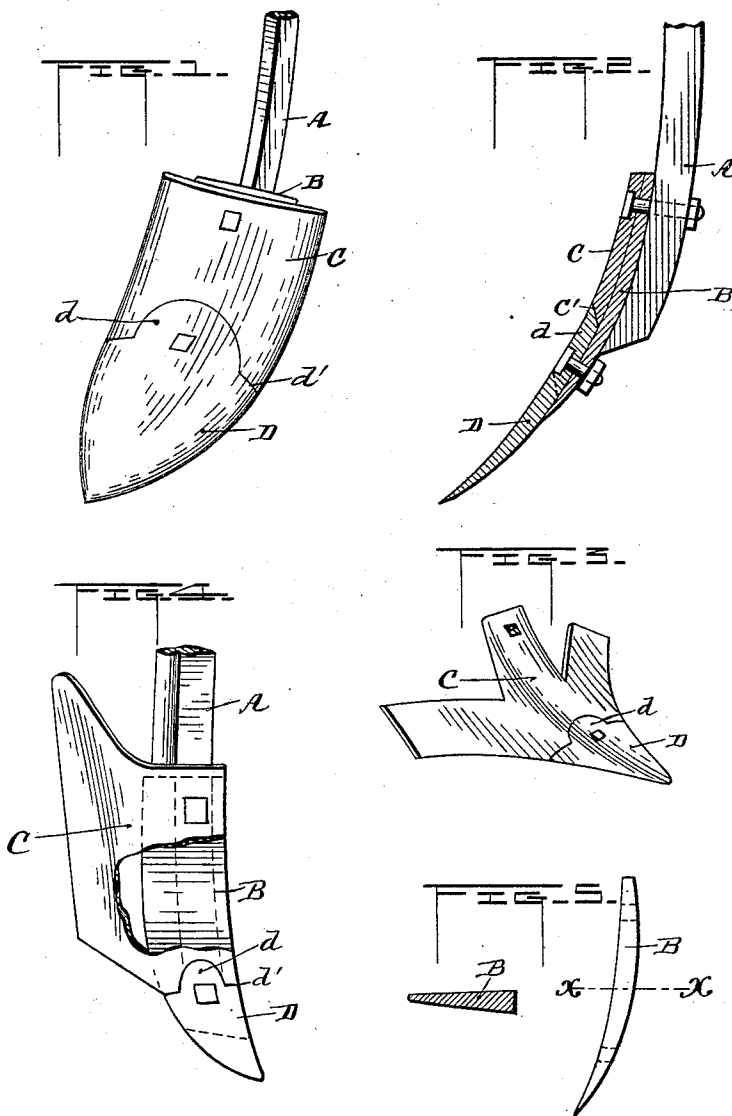


(No Model.)

J. I. HATFIELD.
PLOW.

No. 472,348.

Patented Apr. 5, 1892.



Witnesses

Geverance
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Inventor

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UNITED STATES PATENT OFFICE.

JAMES I. HATFIELD, OF IRWINTON, GEORGIA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 472,348, dated April 5, 1892.

Application filed October 5, 1891. Serial No. 407,778. (No model.)

To all whom it may concern:

Be it known that I, JAMES I. HATFIELD, a citizen of the United States, residing at Irwinton, in the county of Wilkinson and State of Georgia, have invented certain new and useful Improvements in Plows; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, 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 plows, and has particular reference to improvements in plow-points, having for its object the provision of a point which by very slight variations in construction is adapted for use upon any form of plow, whether shovel, scraper, sweep, or turning plow. With several of these forms of plows the point is interchangeable without change of construction.

The invention consists in the construction and combination of parts hereinafter set forth, and pointed out in the claim.

The accompanying drawings illustrate the said invention in its application to different forms of plows.

Figure 1 is a perspective view of a shovel-plow with my invention applied, showing a portion of the stock to which the plow proper is attached. Fig. 2 is a longitudinal section of Fig. 1. Fig. 3 is a perspective view of the sweep form of plow with my invention applied. Fig. 4 is a front elevation of a turning-plow, showing a portion of the shovel or mold-board broken away to show the splice-piece. Fig. 5 is compound figure showing a transverse section and a side or edge elevation of the splice-piece used in Fig. 4.

Similar letters of reference indicate corresponding parts in all the figures where they occur.

A is a plow-stock, and B is a splice-piece, which I attach thereto in connection with the body of the shovel, sweep, or mold-board, as the case may be. This body portion is marked C in all the figures, and it is constructed with a recessed lower edge having a forwardly-beveled form, as shown at *c'*, the edge extending out from the recess being cut horizontally.

This body portion receives the top of the point D, which is of reverse form to meet and form a close fit with the body, its meeting edge having the central projection *d* and the straight sides *d'*. The meeting edge of the point is beveled to fit snugly upon the beveled bottom of the body and give a joint whose exposed edge inclines upward and presents no obstruction to the easy movement of the dirt over the plow. The splice-piece extends nearly or quite to the top of the body C and is fastened to the plow-stock thereby by the same bolt which secures the plow-body to the stock, the hole in the body and the hole in the splice-piece registering for this purpose. The splice-piece extends down below the recess in the plow-body and has the point united to it by means of the bolt, which passes through the projection *d* of the point, which fits into the recess in the plow-body. The form of splice-piece shown in Figs. 1, 2, and 3 is a simple curved piece about the width of the plow-stock and is interchangeable in any form of shovel, sweep, or scraper-plow, and the point used in these figures is also interchangeable in any such plow.

It will be seen that the top of the shovel or plow-body is unchanged from that employed in any ordinary plow, except in the matter of making the recess and beveled edge, which are readily forged or cast without increasing the cost of the plow-body. This is made possible by the addition of the separate splice-piece, which takes the place of and serves the same function as the complicated construction of plow-body which is usually employed with removable points. The separate splice-piece, having no wear upon it, can be used for an indefinite period of time and have any of the interchangeable forms of plow attached to it, and when one plow is worn out a new one can be supplied without renewing the splice-piece.

In the turning-plow the splice-piece B is made wedge shape in transverse section and has an inclined bottom running to a point on the thick side of the splice-piece, which thick side is set in line with the corresponding edge of the plow-stock, which permits the inclined mold-board or shovel to be set and secured

upon it without changing the foot of the stock, thus saving the expense of extra forms of plow-stocks. Upon the shovel or mold-board of the turning-plow, near the point, the same
5 recess and beveled meeting edge are employed as in the form shown in Figs. 1, 2, and 3, and the splice-piece extends below this beveled edge, as in the other forms, and receives the top of the point, which is matched
10 to the recess and bevel of the shovel or mold-board, as in the other form. The point in Fig. 4 is pointed on the side instead of in the center to adapt it to the turning-plow. The splice-piece in the turning-plow may be wider
15 than the stock, and thus afford a brace and support for the mold-board and shovel.

The point in any of the forms is of course the part which takes the greater part of the wear and needs the most frequent renewal,
20 which can be done without renewing or, indeed, disturbing either the plow-body or the splice-piece, and the renewal of the point being a matter of trifling cost the expense of

plowing is greatly reduced and a very considerable saving effected for the agriculturist. 25

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

In a plow, the combination of the plow-stock A, a separate splice-piece B, a plow-body C, fitting upon said splice-piece and secured therewith to the plow-stock by a bolt passing through the body, splice-piece, and stock, said plow-body having a central recess in its lower edge and said splice-piece extending below said recess, and a point-piece having a projection fitting the recess in the body and having a bolt passing through said projection and uniting the point to the splice-piece, as set forth. 30 35 40

In testimony whereof I affix my signature in presence of two witnesses.

JAMES I. HATFIELD.

Witnesses:

I. N. KALB,

F. F. F. JOHNSON.