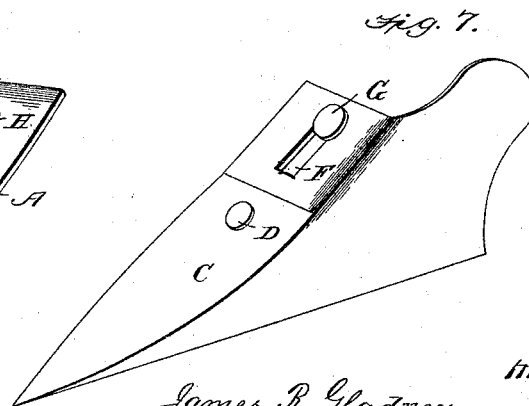
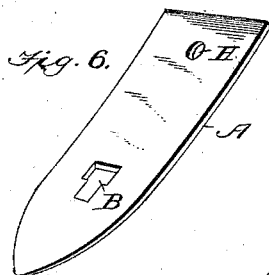
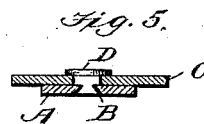
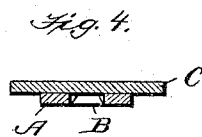
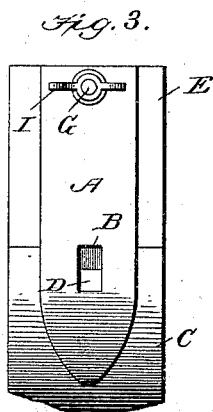
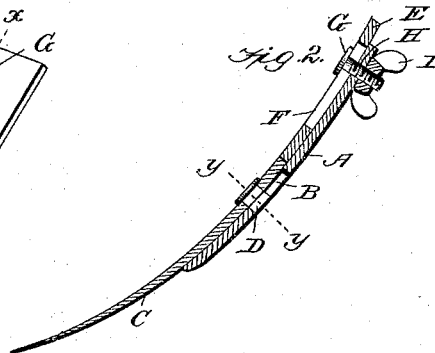
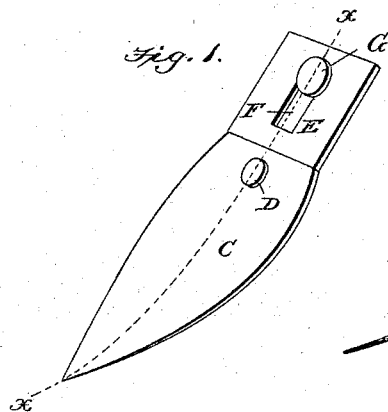


(No Model.)

J. R. GLADNEY & J. C. MAYFIELD.
PLOW.

No. 492,283.

Patented Feb. 21, 1893.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES R. GLADNEY AND JAMES C. MAYFIELD, OF ROANOKE, ALABAMA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 492,283, dated February 21, 1893.

Application filed July 5, 1892. Serial No. 439,077. (No model.)

To all whom it may concern:

Be it known that we, JAMES R. GLADNEY and JAMES C. MAYFIELD, citizens of the United States, residing at Roanoke, in the county of Randolph and State of Alabama, have invented certain new and useful Improvements in Plows; and we do hereby 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.

Our invention relates to certain new and useful improvements in plows.

It has for its objects to facilitate the application of the point to the standard in order that said points may be readily replaced when worn out, or that points of varying sizes or shapes may be substituted one for the other and securely fastened in place. And with these ends and objects in view our invention consists in forming in the body or standard of the plow, preferably near the top, a hole or orifice to receive a suitable bolt by means of which a slotted sliding plate may be secured in any desired position by means of a clamping nut on the bolt, and in also providing said body or standard at a point a suitable distance below the upper end with a T-shaped slot, the lower or narrow portion of said slot being beveled rearward so that a compound square and dovetail bolt or rivet can be secured therein, and securing to the body or standard the plow point through the medium of the compound rivet and sliding plate all as will be hereinafter more fully set forth and specifically claimed.

In order that those skilled in the art may know how to make and use our invention we will proceed to describe its construction and advantages referring by letters to the accompanying drawings, in which—

Figure 1 is a view slightly in perspective of a plow point secured in place in accordance with our invention. Fig. 2 is a central longitudinal section. Fig. 3 is a partial rear view, taken at the line *x, x*, of Fig. 1, of the body or standard and point secured in proper relation to each other. Fig. 4 is a cross section taken at the line *y, y*, Fig. 2, with the compound rivet removed. Fig. 5 is a similar section taken at the same point but showing

the rivet in position. Fig. 6 is a view slightly in perspective of the body or standard of the plow, with the point and sliding plate removed; and Fig. 7 is a perspective view of a modification in which the mold board is provided with an extension to serve the purpose of the sliding plate.

Similar letters of reference denote like parts in the several figures of the drawings.

A represents the standard or body of the plow, or a suitable plate secured thereto as may be thought desirable. At a suitable locality on said body or plate is formed a T-shaped slot B having the narrow portion of said slot beveled rearwardly to meet and form a continuance of the larger portion of the slot at the rear.

C is a plow point of any desired construction or form, and provided near the upper end with a square hole or slot to receive the square portion of the shank of a fastening rivet D. The rivet D is made of the form shown most clearly at Fig. 5, and is composed of a head, a square shank equal in length to the thickness of the plow point, and then of dovetail form to an extent sufficient to firmly interlock with the faces of the beveled portion of the T-slot B.

E is a sliding locking plate formed with a longitudinal slot F through which passes a bolt G which also passes through a hole H (see Fig. 6) in the body of the plow, and by means of which the plate E is secured rigidly in any suitable position, through the medium of a hand nut I.

When it is desired to secure a point in place, the compound rivet D is passed through the square hole, adapted to receive it, in the plow point, the dove-tail end of said rivet is then passed into the upper or head portion of the T-slot B, in the body or standard A, when the point is then forced downward so that the dove-tail end of the rivet will firmly interlock with the beveled or narrow portion of slot B, thus firmly connecting the point and standard. In order that the relation thus secured between the plow point and standard may be maintained, the sliding plate E is now placed on the standard and the bolt G put in place, the plate E is then forced downwardly until its lower straight edge is in close contact with

the upper straight edge of the plow point, and the plate E is then rigidly secured in place tightening the hand nut I.

5 The adjustability of the sliding plate E permits it to be adapted to all ordinary variations of castings and also permits of compensation for wear resulting from friction and use.

10 When thought desirable the mold board of the plow may be constructed with a lateral projection as shown in Fig. 7, and such extension may be employed to subserve the same purpose as the sliding plate E.

15 By our invention it will be readily seen that plow points may be readily and expeditiously changed and interchanged in the field without the use of tools or the necessary presence of a skilled mechanic. Slight variations may of course be made in the details of con-

struction without departing from the spirit 20 of our invention.

What we claim as new, and desire to secure by Letters Patent, is—

In combination with the body or standard of a plow provided with the T-shaped slot B, 25 and bolt hole H, the plow point C formed with a square rivet hole near the top, the compound rivet D, slotted plate E, and securing bolt and nut G, I, substantially as and for the purpose set forth.

30 In testimony whereof we affix our signatures in presence of two witnesses.

JAMES R. GLADNEY.
JAMES C. MAYFIELD.

Witnesses:

J. S. TALLEY,
YOUNG BLAKE.