

(No Model.)

J. A. TIGNER.

PLOW POINT.

No. 347,074.

Patented Aug. 10, 1886.

Fig. 1.

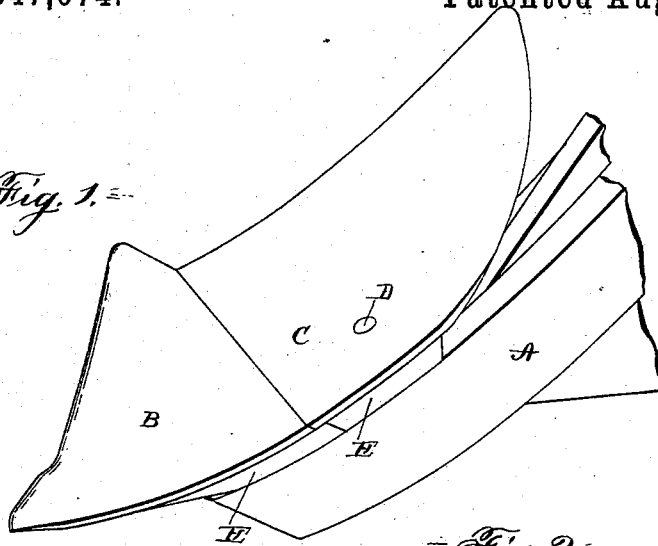


Fig. 2.

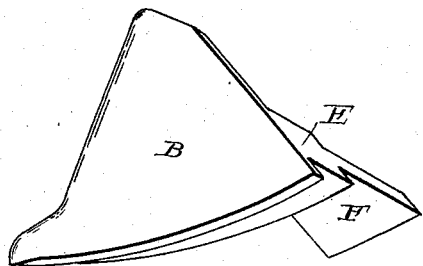
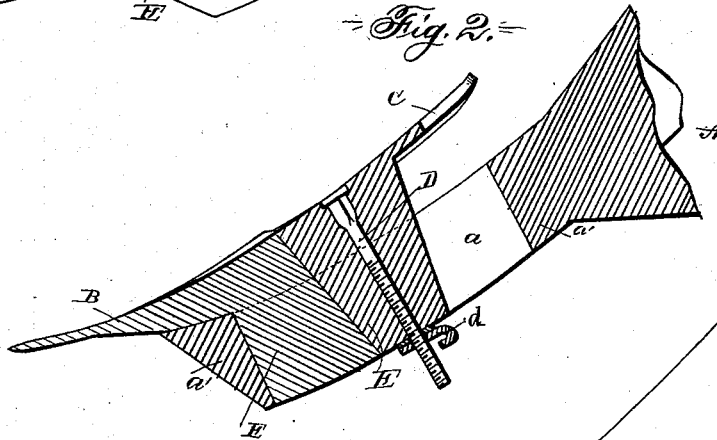


Fig. 3.

Witnesses

James M. Hilton
W. F. Berubaf

Fig. 4.

Inventor

James A. Tigner
By his Attorneys
C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

JAMES ANDREW TIGNER, OF GORDON, LOUISIANA.

PLOW-POINT.

SPECIFICATION forming part of Letters Patent No. 347,074, dated August 10, 1886.

Application filed April 22, 1886. Serial No. 199,793. (No model.)

To all whom it may concern:

Be it known that I, JAMES ANDREW TIGNER, a citizen of the United States, residing at Gordon, in the parish of Claiborne and State of Louisiana, have invented new and useful Improvements in Plow-Points, of which the following is a specification.

My invention relates to improvements in plow-points; and it consists of the peculiar combination and novel construction and arrangement of the various parts for service, substantially as hereinafter fully set forth, and specifically pointed out in the claims.

The object of my invention is to provide improved means whereby the point can be easily and readily detached from the stock or foot and shovels or other suitable implements adjusted for use upon the standard, thus providing the farmer with a number of implements which can be adapted for use upon an ordinary form of plow beam and stock, and consequently effecting a great saving of cost to the farmer in the purchase of his implements.

A further object of my invention is to provide a plow with improved means whereby the point and mold-board are secured upon the stock very rigidly and firmly by the use of a single through-bolt, to provide means for reducing the strain and wear on the bolt and bringing it upon the stock and the point and mold-board, and, finally, to provide an improved plow which shall be simple and cheap.

In the accompanying drawings, Figure 1 is a perspective view of my invention adjusted upon a plow-stock. Fig. 2 is a vertical longitudinal sectional view taken through the stock with my improvements thereon. Figs. 3 and 4 are detached perspective views of the plow-point and the mold-board.

Referring to the drawings, in which like letters of reference denote corresponding parts in all the figures, A designates the plow-stock, which is slotted longitudinally, as at *a*, and provided at its ends with the abutments or shoulders *a'*, that form the ends of the slot.

B designates the removable plow-point, and C the mold-board, which are of the ordinary or any preferred form, and detachably secured upon the stock by means of a single through-bolt, D, that passes through the mold-board and the stock, and receives a nut, *d*, at its

threaded end, that secures the bolt and other devices to the stock.

Near one edge the point and mold-board are each provided with a bearing-plate, E, that is formed integral therewith and on the rear faces thereof; or, if it is desired or advisable, these bearing-plates may be made separate from the point and mold-board and be secured thereto by means of through-bolts or other like devices. These bearing-plates rest against the front edges of the stock, and they lie flush with the side edges thereof, and the rear faces of the plates are curved or inclined to correspond with the curvature or inclination of the stock, so that they rest or bear squarely and firmly thereon and serve to brace and strengthen the point and mold-board.

The bearing-plate of the mold-board and stock is tapered longitudinally to cause the same to assume their proper relative positions with reference to the stock, and the lower edge of the mold-board and the upper edge of the point are beveled or inclined, so that when they are adjusted or fitted upon the stock and secured in position thereon the meeting edges overlap, and thus form a lap-joint. The outer face of the mold-board and point lie flush with each other at the point or line where they overlap, and thus present a smooth and unbroken surface to the action of the soil, and the meeting ends of the bearing-plates are also beveled and form a lap-joint, as will be readily seen from Fig. 2 of the drawings.

The bearing-plates E of the mold-board and point are provided with rearwardly-extending ribs or flanges F, that are arranged longitudinally of the plates and on the rear faces thereof at their middle. These ribs or flanges are equal in width to the slot of the stock, and the flanges fit snugly in the said slot, and thus prevent the mold-board and point from lateral play, while the bearing-plates rest on the edges of the stock and further strengthen the parts. The lower edge of the rib or flange of the point bears or rests against the abutment at the lower ends of the slotted stock, and the meeting ends of the ribs or flanges are beveled or inclined to form a lap-joint, which is similar to the joints of the mold-board and point and the bearing-plates therefor.

To secure my improved point and mold-

board upon a stock, the rib or flange of the point is first passed through the slot so that the lower edge of the flange thereof bears against the lower abutments, *a'*, and the bearing-plate thereof rests, against the outer edges of the stock. The mold-board is now fitted on the stock and the lower edges thereof overlap the upper edges of the point, while the rib or flange passes through the stock and the plate *E* rests thereon, after which the bolt is passed through an opening, *f*, in the mold-board, its plate *E*, and the flange, and on the free end of the bolt is secured a nut, *d*, a washer or other suitable device being interposed between the nut and rib or flange of the mold-board. It will be seen that the mold-board is very firmly secured to the stock, and as its lower edges overlap the point, the latter is also secured in place, and by means of the ribs and bearing-plates the point and mold-board are prevented from any lateral play, and are braced and strengthened in their proper positions relative to each other and the stock.

The mold-board and point can be expeditiously and easily detached by merely removing the single through-bolt and other devices adjusted upon the stock—such, for instance, as shovels, "scooters," &c.

I am aware that plow-stocks of the construction herein shown and described are in common use, and I do not claim this feature, broadly, but limit myself to the peculiar means for securing the point and mold-board detachably upon the stock by means of a single through-bolt.

It is evident that slight changes and modifications in the form and proportion of parts can be made without departing from the spirit of my invention.

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

1. The combination, with a slotted stock, of the mold-board having the rib fitted in the slot of the stock, the point having a like rib and overlapped at its upper edge by the mold-board, and a single through-bolt passed through the mold-board and stock, for securing the mold-board and point upon the stock independent of other fastening devices, substantially as described.

2. The combination, with a slotted stock, of a mold-board and the point forming a lap-joint at their meeting edges, each provided with a bearing-plate resting on the stock, and with an extended flange or rib integral with the plate and passing through the slot of the stock, and a single bolt passing through the mold-board and stock, for securing the mold-board and point detachably upon the stock, substantially as described.

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

JAMES ANDREW TIGNER.

Witnesses:

M. REES BRYAN,
D. J. SAYERS.