

(No Model.)

A. BALL.
PLOW POINT.

No. 289,797.

Patented Dec. 11, 1883.

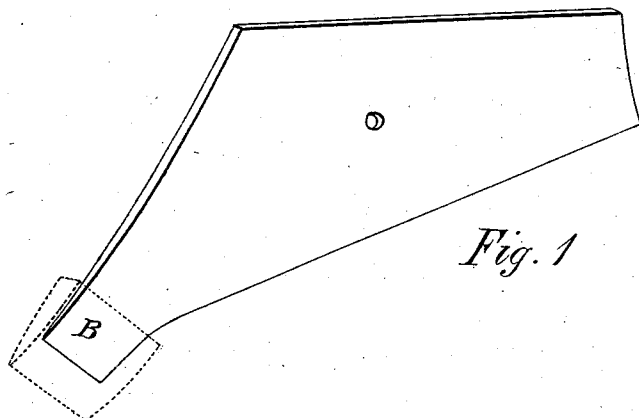


Fig. 1

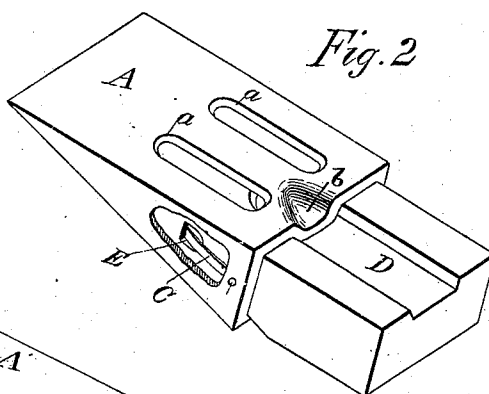


Fig. 2

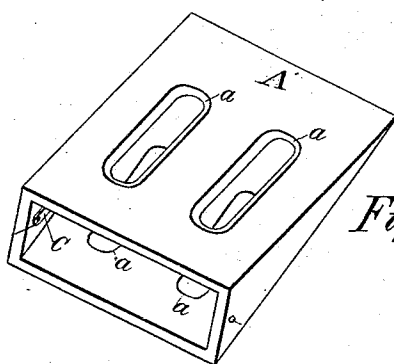


Fig. 3

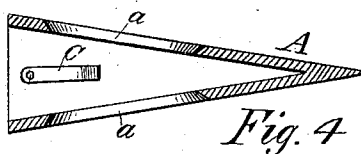


Fig. 4

Fred. W. Bond
John A. Mask
Witnesses

Albert Ball Inventor
per Fowler & Ball Attorneys

UNITED STATES PATENT OFFICE

ALBERT BALL, OF CANTON, OHIO.

PLOW-POINT.

SPECIFICATION forming part of Letters Patent No. 289,797, dated December 11, 1883.

Application filed March 7, 1883. (No model.)

To all whom it may concern:

Be it known that I, ALBERT BALL, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have
5. invented certain new and useful Improvements in Plow-Points; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this
10 specification, and to the letters and figures of reference marked thereon, in which—

Figure 1 is a side view of a plowshare, showing my detachable point by dotted lines. Fig. 2 is a perspective view of detachable point.
15 Fig. 3 is a like view, showing the point detached. Fig. 4 is a longitudinal section of detachable point.

Similar letters indicate corresponding parts in each of the figures.

20 The design of my invention is to provide a detachable point to be attached to the point of a share after said point has become dull from use; and its nature consists in providing a hollow point of the form shown in Figs. 2 and
25 3, to fit the point of a share especially adapted for said hollow point; or it may be formed so as to fit the points of shares in common use.

The hollow point A may be made of malleable iron or steel, or any other suitable material, and is provided with the elongated holes
30 a. The pointed portion of this hollow point is tempered or hardened in the ordinary manner of tempering plow-points. The back or rear portion of said hollow point is left in its natural condition, so as to be pliable for the
35 purpose of bending or sinking the part directly over or opposite the recess D into said recess, as shown in Fig. 2.

The hollow point A is made wedge shape,
40 as shown in Fig. 4, and is placed on the point of the share, and the rear part bent into the recess D, as shown at b, so as to firmly hold said hollow point in proper position. When
45 said hollow point has been worn beveling, it may be removed by springing the part over the recess D out, when said hollow point can

easily be removed and reversed, and again placed in position as before, and so on until said hollow point is worn out.

It will be seen that, by providing the elongated holes a, the rear part of the hollow point A can be bent into the recess D without springing the point or forward portion of said hollow point, and at the same time this hollow point will be securely and firmly held in proper position without a bolt or key. It will also
55 be seen that I am enabled to attach the hollow point A to plowshares in common use, as well as to those especially adapted for this hollow point. As plowshares in common use
60 are provided with a recess upon their under side, by attaching this hollow point to the point of a share, as described, a new point is provided that will take the place of an entire new share, and these hollow points can
65 be furnished at a much less cost than a new share.

Should it be desired to have the point A remain on the plowshare-point, springs C may be employed, which are connected to the hollow
70 point, and when said point is placed over the plowshare-point the springs will engage with notches E in the sides thereof, as shown in Fig. 2, thus securely and permanently holding the point in position.

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

The combination, with a plowshare-point having a recess, D, of the hollow point A, 80 formed with elongated holes a, and connected to the plowshare-point by sinking the rear portion into the recess D, substantially as shown and described.

In testimony that I claim the above I have
85 hereunto subscribed my name in the presence of two witnesses.

ALBERT BALL.

Witnesses:

LORENZO D. BALL,
JOHN L. SPANGLER.