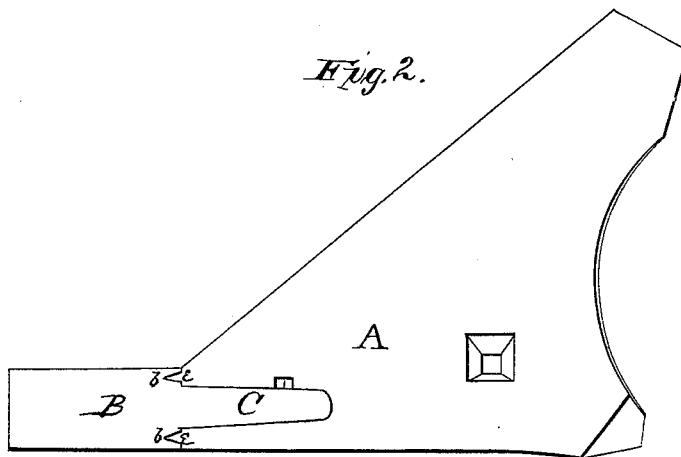
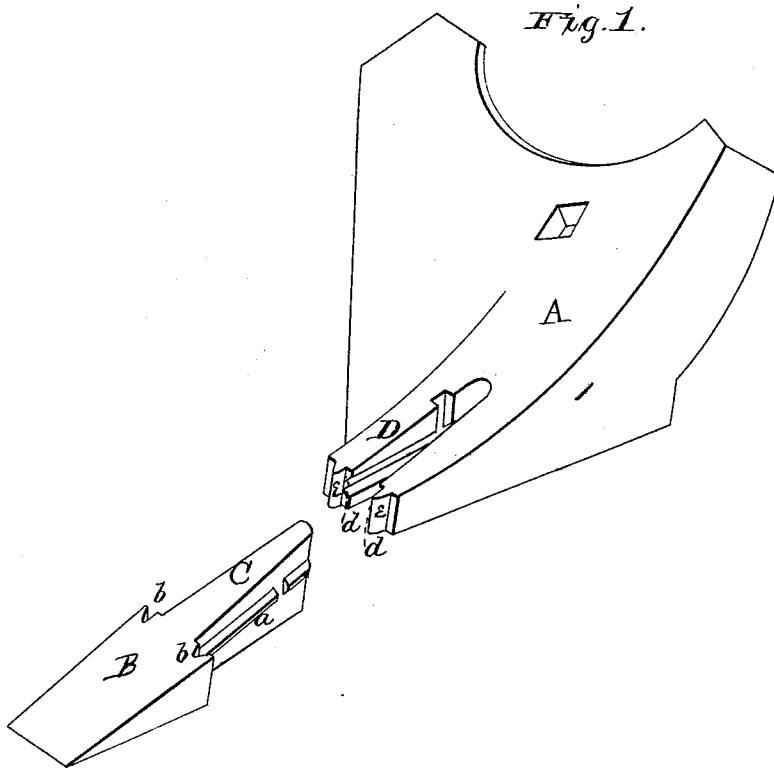


M. M. BOWERS.
Reversible Plow-Point.

No. 197,086.

Patented Nov. 13, 1877.



WITNESSES

Frank L. Arnold
John C. Schroeder

INVENTOR

Marcus M. Bowers
Alexander Mason

ATTORNEYS

UNITED STATES PATENT OFFICE.

MARCUS M. BOWERS, OF RICHMOND, VIRGINIA, ASSIGNOR OF A PART OF HIS RIGHT TO THOMAS M. HILTZHIMER, JR., AND JOHN P. SCHERMERHORN, OF SAME PLACE.

IMPROVEMENT IN REVERSIBLE PLOW-POINTS.

Specification forming part of Letters Patent No. **197,086**, dated November 13, 1877; application filed August 10, 1877.

To all whom it may concern:

Be it known that I, MARCUS M. BOWERS, of Richmond, in the county of Henrico, and in the State of Virginia, have invented certain new and useful Improvements in Reversible Plow-Points; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to that class of detachable and reversible plow-points as described in my Letters Patent No. 165,703, dated July 20, 1875; and it consists in a wedge-shaped plow-point having a shank upon each side of which is a central rib, said shank being used in combination with a plowshare in which is an opening made to receive and correspond with the shape of said shank, as will be hereinafter more fully set forth.

In the annexed drawings, Figure 1 is a perspective view, showing the point detached from the share. Fig. 2 is a plan view, showing the point in its place.

A represents the plowshare, and B is the plow-point. This point B is formed with a projecting shank, C, and is made in wedge shape, equal on both sides from the center, so that it may be placed with either side up, and have the same set with relation to the plowshare.

On each side of the shank C is a central longitudinal rib, *a*, as shown, extending the entire length thereof; and at the base of the shank, in the head of the point, on each side, is a V-shaped notch, *b*.

In the forward end of the share A is made a central opening, D, extending vertically through the same, and in each side of said opening is a central longitudinal groove, *d*. This opening, with its grooves, is made to correspond in shape and size with the shank C and its ribs, so that they will fit therein; and the end of the share, on each side of the opening, is formed with a shoulder or projection, *e*, to fit in the notches *b* on the point.

Key-seats may be made in the shank and share to draw and lock the point in place.

I do not wish to be understood as claiming, broadly, what is shown in my former patent, above referred to.

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

The combination of a plowshare provided with a tapering opening vertically through it from top to bottom, and having a longitudinal groove on each wall of said opening, the wedge-shaped plow-point, having a tapering shank with a central rib on each side, and one or more spaces in the share and between the ribs for the insertion of a wedge or key, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of July, 1877.

MARCUS M. BOWERS.

Witnesses:

FRANKLIN STEARNS,
JAMES B. WEISIGER.