

B. HARVEY.

Plowshares.

No. 133,854.

Patented Dec. 10, 1872.

Fig.1.

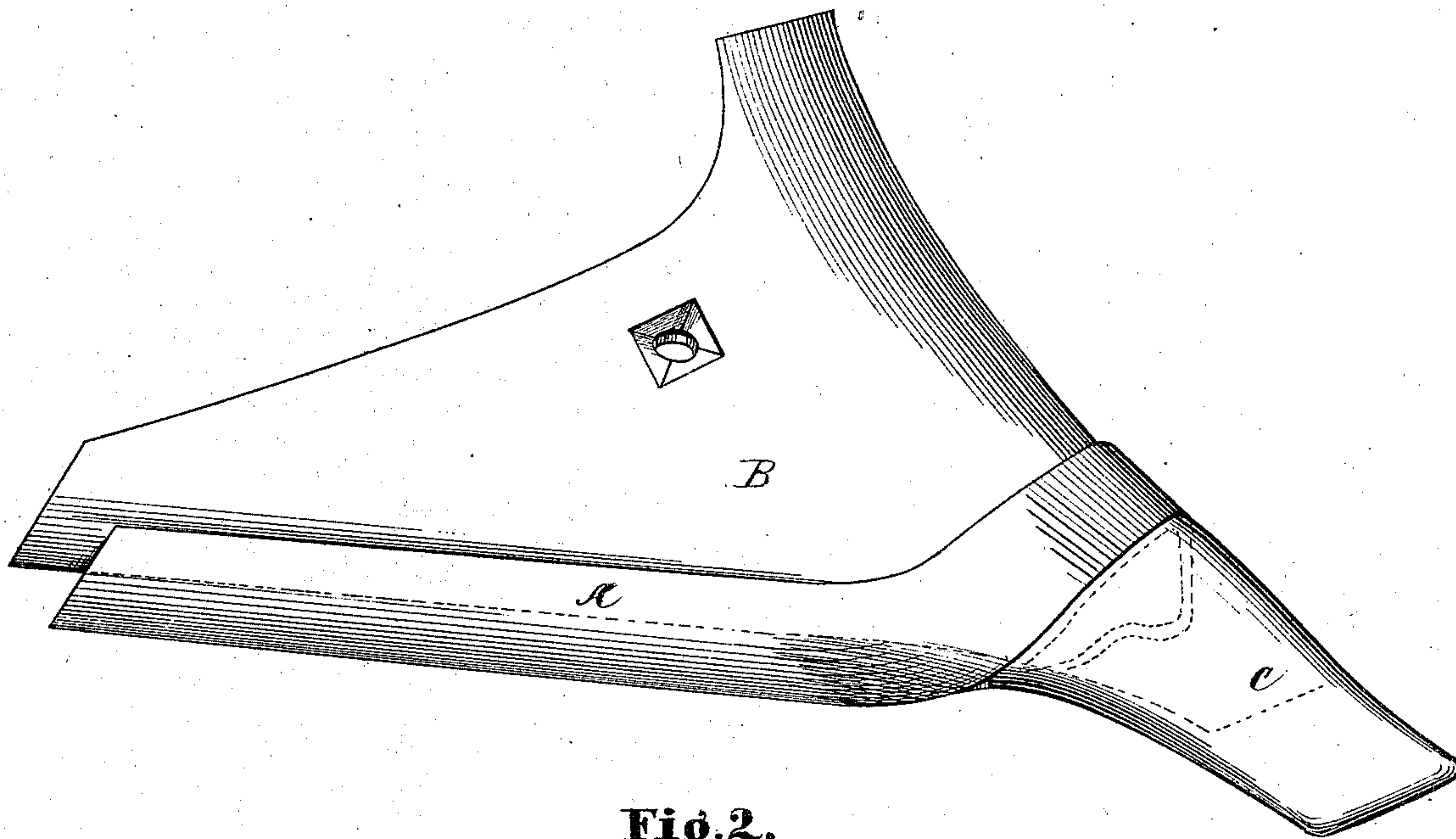
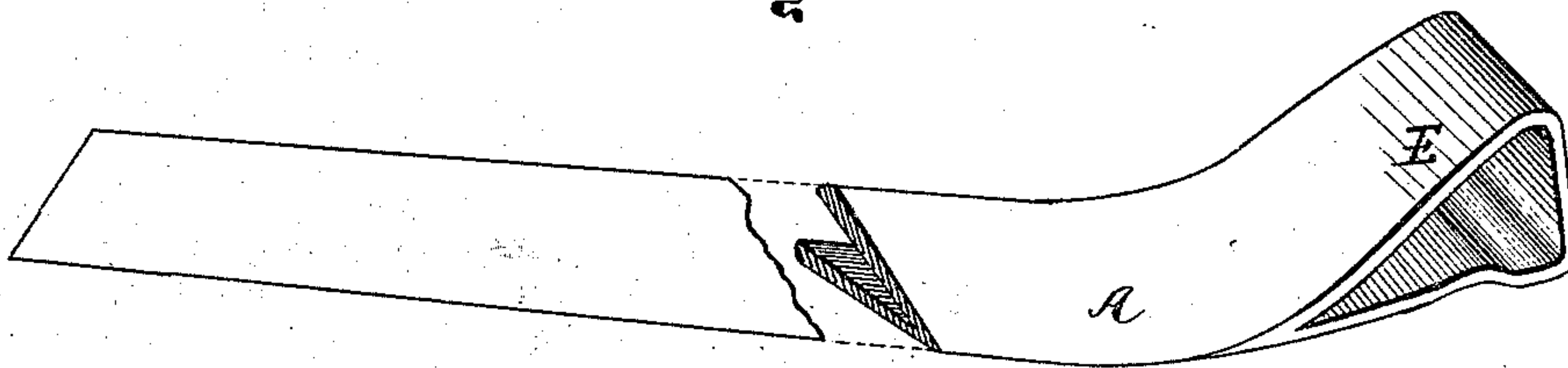


Fig.2.



Witnesses.
Wm. J. Payson

Inventor.
B. Harvey.
per *James L. Norris.*
Atty-

UNITED STATES PATENT OFFICE.

BARNARD HARVEY, OF WEST BLOOMFIELD, NEW YORK.

IMPROVEMENT IN PLOWSHARES.

Specification forming part of Letters Patent No. **133,854**, dated December 10, 1872.

To all whom it may concern:

Be it known that I, BARNARD HARVEY, of West Bloomfield, in the county of Ontario and State of New York, have invented certain new and useful Improvements in Detachable Cutting Attachment for Plowshares, of which the following is a specification:

The object of my invention is an attachment for use in connection with plowshares whereby the land-side and point are rendered much more durable and efficient, and prevented from undue wear, than those devices in general use. My invention consists of a plate, of steel or other tempered material, forged or struck up to a V-shape to form a V-shaped socket, which plate is fitted to the edge of the land-side of the plow, heated and driven thereon, and allowed to cool, thus shrinking and firmly claspings the edge of the share, and forming a supplemental cutting-edge.

A represents the improved attachment, which consists of a plate, of steel or other tempered material, brought to a V-shape to form a V-shaped recess, and one edge being formed with a socket, E, which encircles the end of the plowshare B, the said recessed plate being adapted to the edge of the share, as shown, in the following manner: The plate is fitted to the edge of the plowshare, is heated and driven onto the same, and permitted to cool, thus shrinking and claspings the share, and being retained thereon in a firm position, forming, as it were, a part of the share, which is not liable to be removed by sudden shocks. I construct

the steel point C of a plate of steel, doubled over and welded at the edges, and at one end forming a hollow sheath, sharp at one end and hollow at the other. This point is fitted to the end of the share, when it is heated and driven onto the same, and permitted to cool, thereby shrinking and claspings the share, and being retained in a firm position.

By providing the share with the supplemental cutting-edge A, as described, and combining therewith a steel point, C, the entire cutting and wearing portion of the plow is protected, and will be much more durable and efficient than the ordinary chilled cast-iron plows.

It is evident that the steel cutting-edge may be employed with the supplemental point described, and it may be used in connection with plowshares provided with ordinary points.

When the cutting-edge becomes useless from wear it may be removed by heating, and a new one replaced thereon.

I claim as my invention—

The supplemental cutting-edge A, formed as described, and adapted to a plowshare in the manner herein shown, for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 27th day of September, 1872.

BARNARD HARVEY. [L. S.]

Witnesses:

MYRON S. HALL,
JOHN S. BROWNING.