

M. JOHNSON.  
Cultivator-Tooth.

No. 197,638.

Patented Nov. 27, 1877.

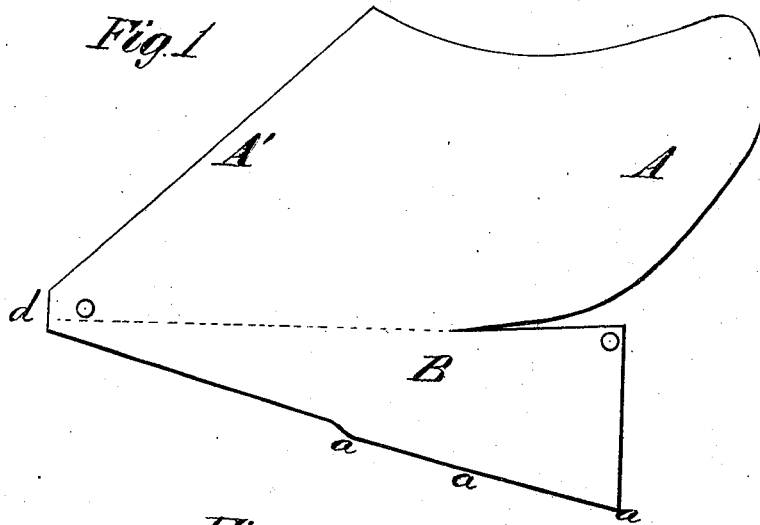


Fig. 2.

Fig. 3.

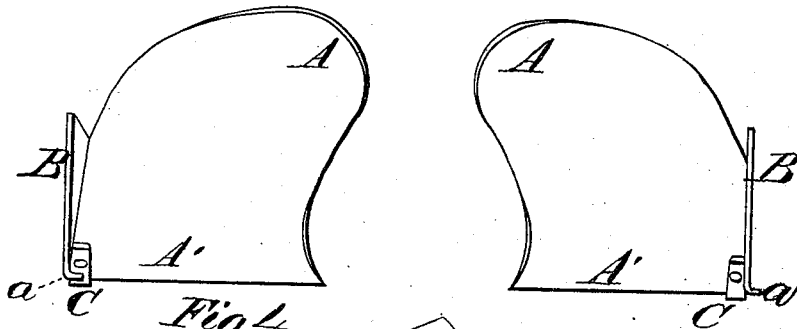


Fig. 4.

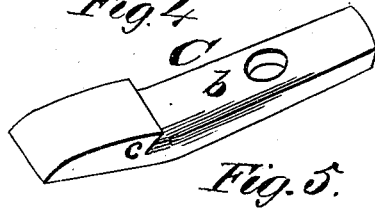


Fig. 5.

WITNESSES  
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# UNITED STATES PATENT OFFICE.

MOSES JOHNSON, OF THREE RIVERS, MICHIGAN, ASSIGNOR TO THE UNION MANUFACTURING COMPANY, OF SAME PLACE.

## IMPROVEMENT IN CULTIVATOR-TEETH.

Specification forming part of Letters Patent No. 197,638, dated November 27, 1877; application filed October 26, 1877.

*To all whom it may concern:*

Be it known that I, MOSES JOHNSON, of Three Rivers, in the county of St. Joseph and State of Michigan, have invented a new and valuable Improvement in Cultivator-Teeth; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a plan view of my cultivator-tooth. Figs. 2 and 3 are end views of the same. Fig. 4 is a detail view, and Fig. 5 is a perspective view, of the same.

My invention relates to the manufacture of cultivator-teeth; and it consists in the construction of a cultivator-tooth of one piece of steel, pressed into shape, and provided with a removable point, and also with a land-side flange, which forms the sole of the implement, as will be understood from the following description.

In the annexed drawings, A designates the wing of the tooth, A' the share, B the land-side, and C the point. These parts, with the exception of the point C, are first formed out of a single piece of steel, as shown in Fig. 1, and then pressed into the shape shown in Fig. 5.

On one edge of the land-side B a flange, *a*,

is formed, which is bent at right angles to the land-side, so as to form the sole of the implement. This flange *a* may be bent inwardly, as shown in Fig. 2, or it may be turned out, as shown in Fig. 3.

The point C is constructed with a thin shank, *b*, which terminates in an under-beveled shoulder, *c*, that receives the straight portion *a* of the share at the point of the implement, and serves, in connection with a single bolt or rivet, *e*, to rigidly secure the point C to its place.

I am aware that the mold-board, land-side, and share of a plow have heretofore been constructed in one piece, and therefore I make no claim to such invention.

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

The cultivator-tooth herein described, composed of the wing or mold-board A and land-side B, having the flange or sole *a*, made of a single piece of metal, in combination with the point C, provided with the beveled shoulder *c* and rounded seat *b*, as and for the purpose set forth.

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

MOSES JOHNSON.

Witnesses:

R. R. PEALER,  
GEORGE NEYCE.