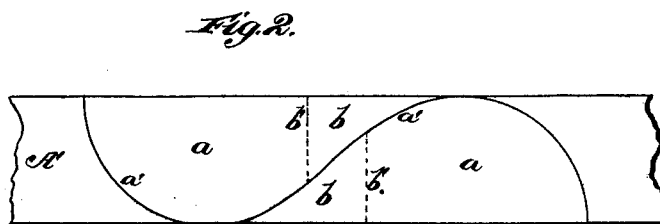
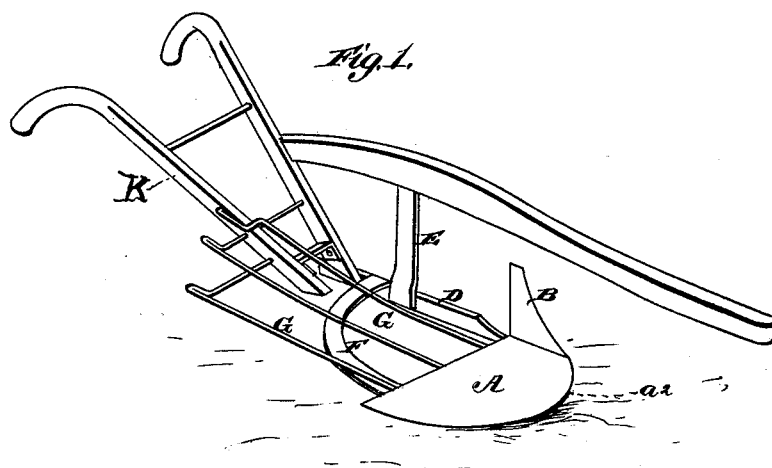


J. M. & D. D. HILL.
 Manufacture of Plow-Irons.

No. 218,025.

Patented July 29, 1879.



WITNESSES
Robert Everett
W. N. Towner

INVENTORS
James M. Hill, & David D. Hill.
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 ATTORNEYS

UNITED STATES PATENT OFFICE.

JAMES M. HILL AND DAVID D. HILL, OF LOGAN, KANSAS.

IMPROVEMENT IN THE MANUFACTURE OF PLOW-IRONS.

Specification forming part of Letters Patent No. **218,025**, dated July 29, 1879; application filed April 26, 1879.

To all whom it may concern:

Be it known that we, JAMES M. HILL and DAVID D. HILL, of Logan, in the county of Phillips and State of Kansas, have invented certain new and useful Improvements in the Manufacture of Plow-Irons; and we 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 drawings is a representation of a perspective of our plow, and Fig. 2 is a view of the sheet of metal before the share is formed.

Our invention relates to that class of plows used for cutting sods; and it consists in the following-described features.

A is the sod-cutter. B is a colter formed of the same piece of sheet-steel. D is the land-side. E is the standard. F is an arm supporting the outer side of the cutter. G are bars attached to the cutter and extending rearward, and are attached to the handle K, formed in such a manner as to serve as a mold-board, turning the sod over as it passes over them.

A' represents a sheet of metal, of proper width to form the cutter and colter from. The line $a^1 a^1$ defines two cutters, $a a$, and two colters, $b b$, which are to be bent upward at dotted

lines $b' b'$, thus forming the cutter circular or convex upon its cutting-edge a^2 , and a colter from one piece of metal without waste of the same.

The advantage of the convex cutting-edge is, that it presents a shearing cut and will free itself of any clogging substances, and being circular, the shearing being both ways from the center of the cut, the plow will follow the draft, and not tend to or from the land side of the sod.

What we claim is—

The improvement herein described in the art of making a combined sod-cutter and colter for a plow in one piece and out of a single piece of metal, to wit: cutting blanks from a strip or ribbon of steel, as shown in Fig. 2, along the line a^1 , thus producing two blanks, of which the part a in each answers to the cutter, and the part b for the colter, the angle of one to the other being established by bending along the line b' , as set forth.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

JAMES M. HILL.
DAVID D. HILL.

Witnesses:

J. B. BODWELL,
S. A. ROBINSON.