

(No Model.)

H. GILES.

Steel Blank for Repointing Cultivator Shovels.

No. 233,149.

Patented Oct. 12, 1880.

Fig. 1.

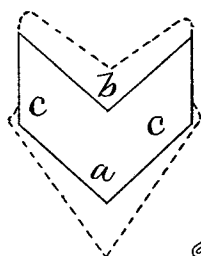


Fig. 2.

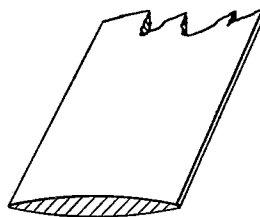
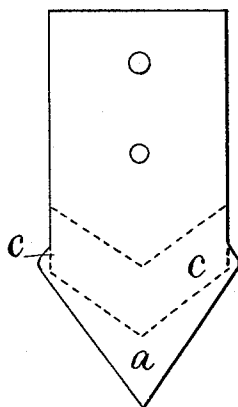


Fig. 3.



Witnesses:

Frank W. Heers,

C. M. Buck.

Inventor:

Henry Giles,

By Thomas G. Orwig,
Attorney.

UNITED STATES PATENT OFFICE.

HENRY GILES, OF MILO, IOWA.

STEEL BLANK FOR REPOINTING CULTIVATOR-SHOVELS.

SPECIFICATION forming part of Letters Patent No. 233,149, dated October 12, 1880.

Application filed June 7, 1880. (No model.)

To all whom it may concern:

Be it known that I, HENRY GILES, of Milo, in the county of Warren and State of Iowa, have invented a Blank for Refitting Worn Cultivator-Shovels, of which the following is a specification.

My invention relates to the manner of repairing or refitting worn-out cultivator-shovels.

Heretofore steel bars have been formed with a swell in the center and blanks for cultivator-shovels cut from such bars. When the points of the shovels were worn off surplus metal in the swell along the center of the shovel could be drawn out to renew the point; but the majority of cultivator-shovels are made uniform in thickness from one edge to the other, and when the points are worn off the shovels are worthless unless they can be sold and utilized as old metal.

My invention contemplates repairing or refitting such plain worn-out shovels; and it consists in forming and applying a blank of novel form, as hereinafter fully set forth.

Figure 1 of my accompanying drawings represents my blank of polygonal form as cut from a steel plate or bar. It angles rearward from its front or lower end and point, *a*, and has a corresponding re-entering angle, *b*, at its rear or top end. It corresponds in width with the shovel upon which it is to be placed, and its edges *c* are parallel. The dotted lines at the front or lower end indicate the manner in which the point and cutting-edges are drawn out, and the dotted lines at the top end indi-

cate how the edges of the re-entering angle are drawn out and thinned, and thereby prepared to overlap the worn edges and point of the shovel to which the complete blank is to be welded.

Fig. 2 is a perspective view of a section of a steel bar that has a swell in the center, and that is specially adapted in form for producing my blanks, that are designed to be placed in the market as a new article of merchandise, and furnished to blacksmiths for the purpose of refitting worn-out cultivator-shovels.

Fig. 3 is a face view of a cultivator-shovel that has been refitted by simply placing the angling edges of the top end of the blank upon the lower end and rear side of the worn shovel and welding it fast in a common way, and then grinding and polishing the face of the complete shovel.

By thus providing polygonal or bat-shaped blanks the work of refitting and renewing worn-out shovels can be readily accomplished by any blacksmith, and the expense of procuring new shovels saved to the farmer.

I claim as my invention—

As a new article of manufacture, a polygonal and bat-shaped plate, *a b c*, adapted for refitting worn cultivator-shovels, substantially as set forth.

HENRY GILES

Witnesses:

T. M. GRAHAM,
J. M. WARD.