

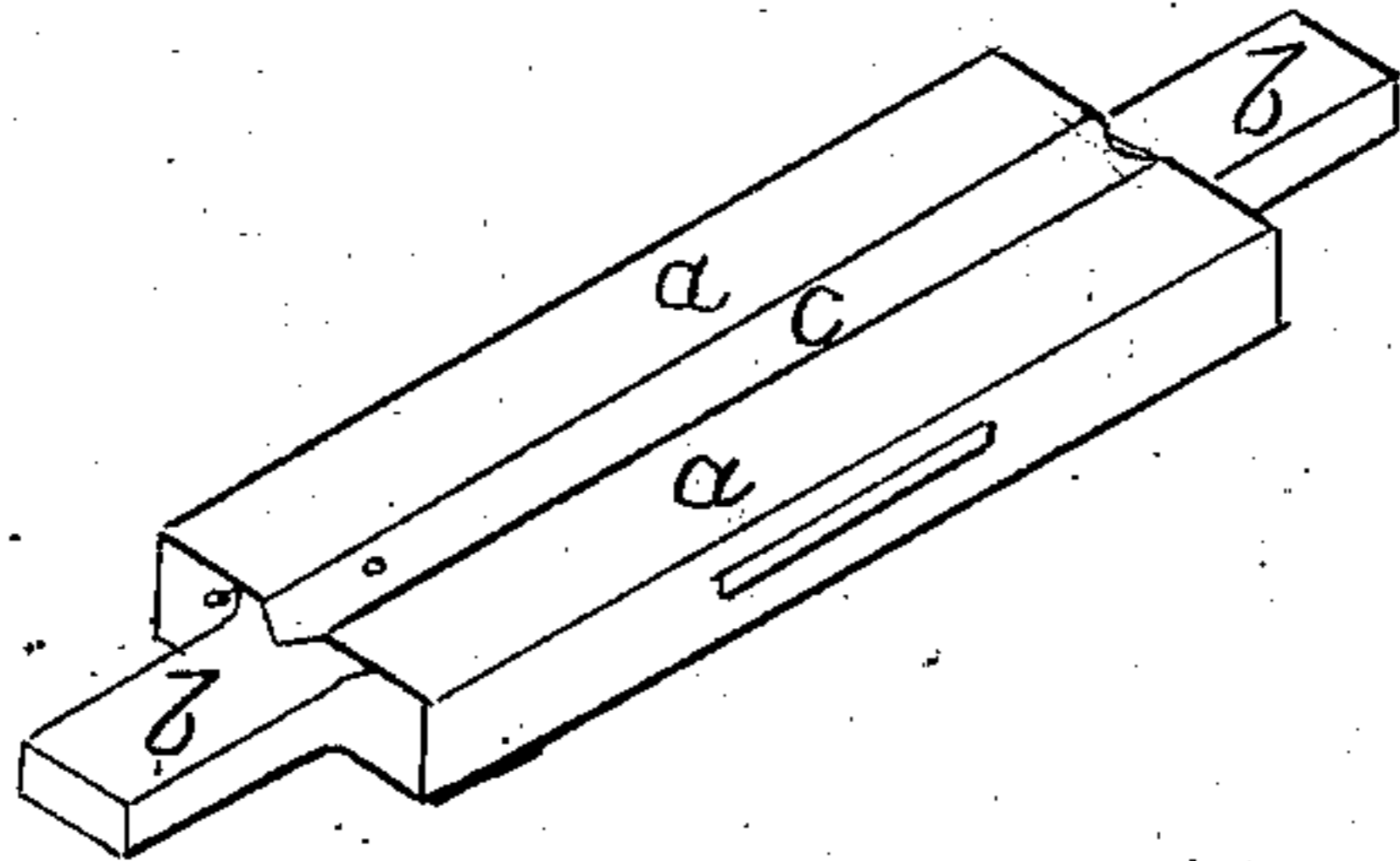
Hervey Waters.

74960

Imp'd Blank for Shovels. etc.

PATENTED

FEB 25 1868



Witnesses.

G. B. Kidder.  
G. B. Welch

Hervey Waters  
Inventor.  
Cross & Gould.  
Attys

# United States Patent Office.

HERVEY WATERS, OF BOSTON, MASSACHUSETTS.

*Letters Patent No. 74,960, dated February 25, 1868.*

## IMPROVED BLANK FOR HOE.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, HERVEY WATERS, of Boston, in the county of Suffolk, and State of Massachusetts, have invented an Improved Blank for Shovels, &c.; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention sufficient to enable those skilled in the art to practise it.

Letters Patent of the United States, numbered 62,456, were granted to me on the 26th of February, 1867, for an improved blank for hoes, shovels, &c., the blank therein shown and described, and which constitutes the invention, having the shanks for two blades drawn upon it, one at each end thereof, with the material for two blades (in connection) between the shanks, the disposition of the material being such that the said central portion thereof may be spread by rolling in direction at right angles to the line of the shanks, by alternate passes upon each side of and from the line central with and between the shanks, to the outside of the blades, the same being capable of being afterwards rolled doubly in the direction of the line of the shanks, but from the edges to and over the ears, instead of, as formerly, singly in the same line, but in opposite directions.

My present invention relates to the construction of blanks embodying my said patented invention, and the purpose of my improvement is to obviate a difficulty which to some extent inheres in rolling said patented blanks, as described, from any liability of the metal to spread over on to the wrong side of the centre line between the shanks.

My present invention consists in such a blank, having an incision or deep indentation in one or both of its faces, in the direct line between the shanks, so as to partially divide the metal when in a thick state, to prevent its working over in rolling, as it might otherwise incline to do.

The drawing represents the invention embodied in a blank designed particularly for shovels, *a*, denoting the portion of the plate or bar from which two blades are to be produced by rolling; *b b*, the metal for the straps, *c* the indentation or groove sunk in one or both surfaces of the blank, between the straps, and so formed that in rolling from the centre line of said groove outwardly by alternate passes, there shall be a proper distribution or disposition of metal kept up.

I claim a blank for shovels, hoes, &c., made substantially as shown and described.

Witnesses:

F. GOULD,

S. B. KIDDER.

HERVEY WATERS.