

P. F. Burke.

Bar for Toe Calks.

N^o 86,503.

Patented Feb. 2, 1869.

Fig. 1.

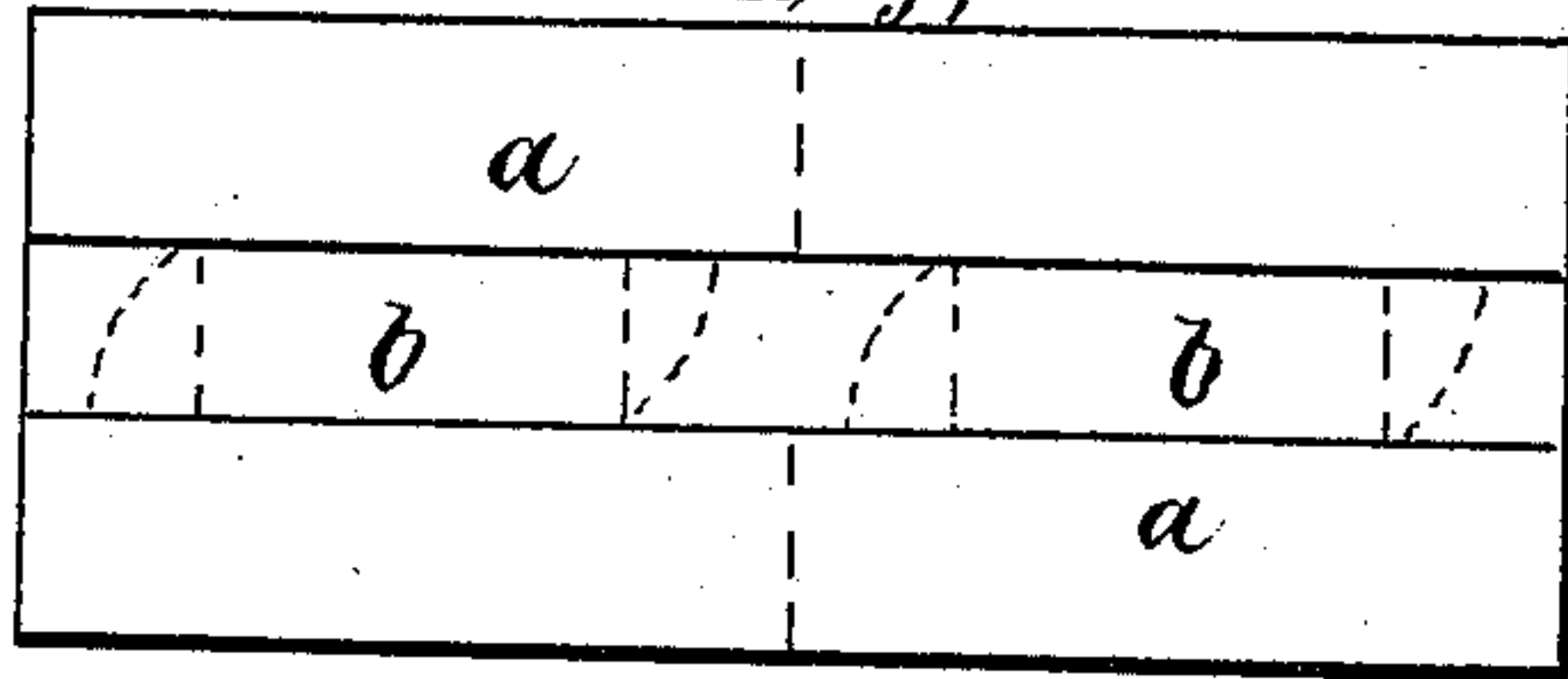


Fig. 2.

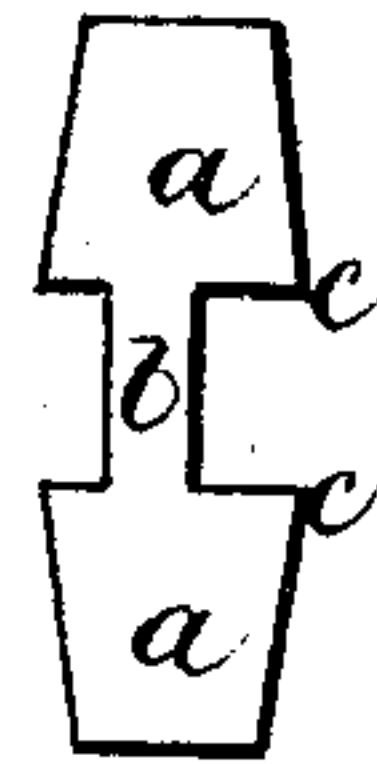


Fig. 3.

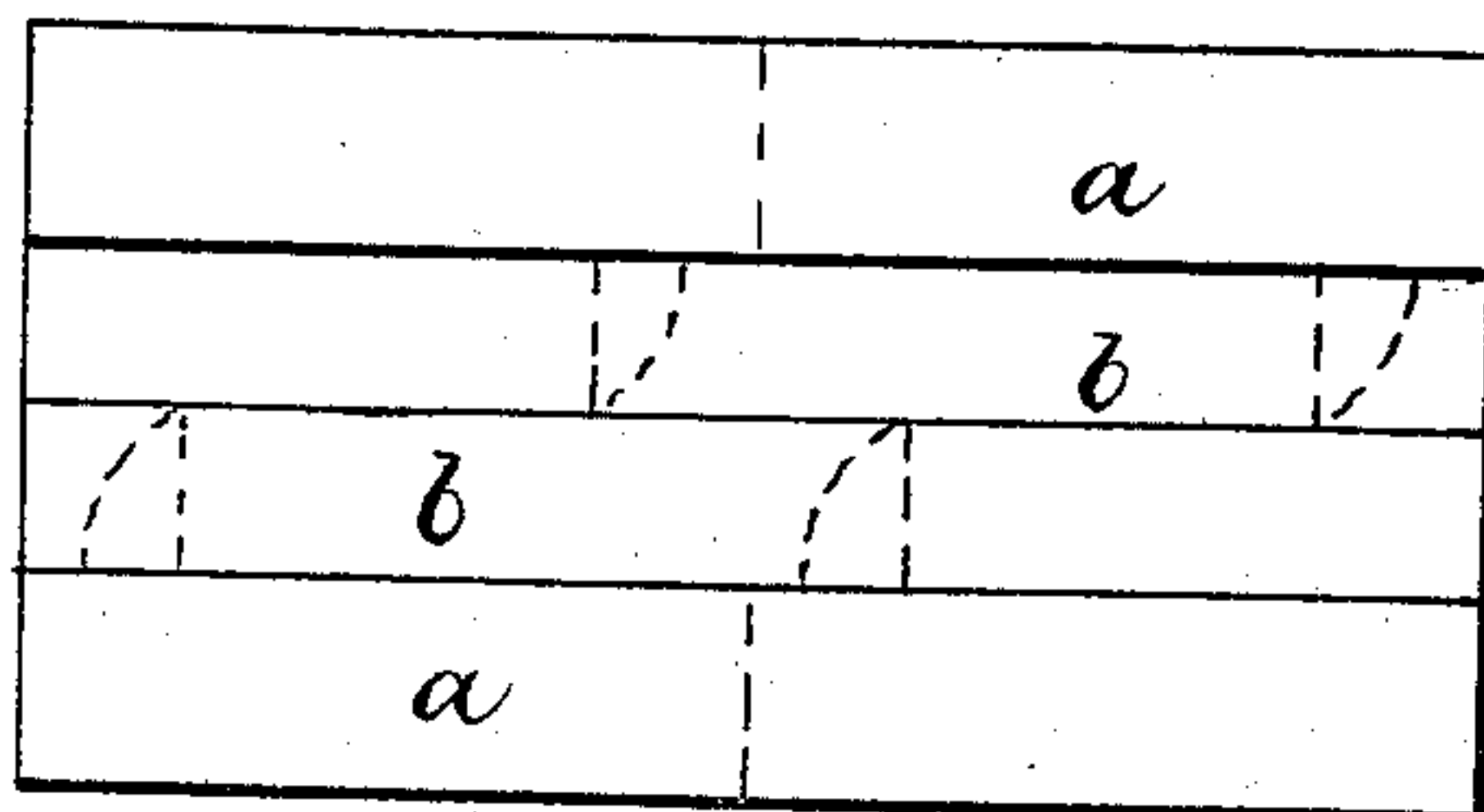
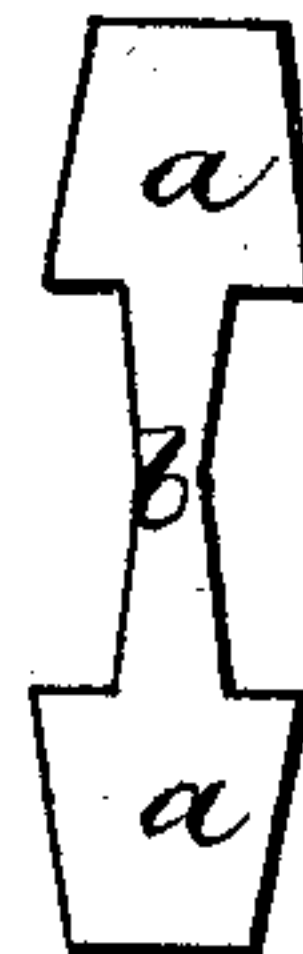


Fig. 4.



Witnesses,

*A. B. Crosby—
Thomas Doley*

Inventor,

P. F. Burke

United States Patent Office.

P. F. BURKE, OF WORCESTER, MASSACHUSETTS.

Letters Patent No. 86,503, dated February 2, 1869.

IMPROVEMENT IN BLANK OR BAR FOR TOE-CALKS.

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, P. F. BURKE, of Worcester, in the county of Worcester, and State of Massachusetts, have invented an Improved Blank or Bar for Toe-Calks; 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, No. 78,581, were granted, June 2, 1868, for the invention of Thomas Dooley, for a calk or calk-blank, having a peculiar relation of iron and steel therein. In said patent the web of iron which unites the edges of the bar is made of a width equal to twice the length of the spurs or steady-pins projecting from the bodies of the toe-calks.

This width I have found to be unnecessary for the production of punched toe-calks, and wasteful of material, and the object of my invention is to save the unnecessary waste resulting from making the bars or blanks as shown and described by Dooley.

In practice, I make the toe-calk bar or blank with a width of web equal to the length of the spurs or steady-pins formed on the calks to be made; and

My invention consists in a bar or blank, having its edges formed in cross-section, like the sections of the toe-calks to be produced therefrom, when said edges are united by a web integral therewith, and of a width equal to the length of the steady-pins formed on the calks.

This improved blank or bar saves, to be utilized in merchantable toe-calks, one-half of the waste produced from Dooley's bar, amounting, for the average of sizes of toe-calks, at present prices of material, to about fifteen dollars per ton; that is, from a ton of material, I can produce from my blanks, on an average, about fifteen dollars' worth more of toe-calks, of given dimensions, besides my waste, than can be produced by Dooley; and

My invention further consists in a toe-calk bar or

blank made with the web uniting the edges located out of the centre of said edges, the object of this part of my invention being to bring the steady-pin of a toe-calk further from the edge of the shoe to which it is welded, so that when the steady-pin is driven through the heated iron of the shoe, it shall not bulge or crack the metal, as was the case when the steady-pin was made central with the calk.

Figures 1 and 2 of the drawings are, respectively, a plan and an end view of my improved toe-calk blank or bar, and

Figures 3 and 4 are similar views of the toe-calk bar or blank, as made by Dooley.

In figs. 1 and 3, the dotted lines show the steady-pins and the lines of separation at the ends of the toe-calks, and inspection of said figures will clearly show the diminished waste coming from my improved bar.

In the drawings, *a a* are the edges of each bar, and *b*, the central web of each, which, in fig. 3, is double the width that it is in fig. 1.

In fig. 4, the web is shown as centrally located, with respect to the edges *a a*, while in my bar, fig. 2, it will be seen that the web is located out of centre.

Calks made from bars like fig. 2 have the angle, at *c*, presented toward or at the perimeter of the shoe, this setting the steady-pins further back from the outer edge of the shoe into the metal thereof, and lessening the liability of cracking or bulging the shoe, in the act of uniting the calks to the shoes.

I claim a toe-calk bar or blank, made with the web uniting the edges, of a width substantially equal to the length of the steady-pins, as and for the purpose specified.

Also, a toe-calk bar or blank, having its web located out of centre, with respect to the edges, substantially as and for the purpose shown.

P. F. BURKE.

Witnesses:

J. B. CROSBY,
THOMAS DOOLEY.