

C. A. WARFIELD.
Bench-Knives.

No. 156,002.

Patented Oct. 13, 1874.

Fig 1.

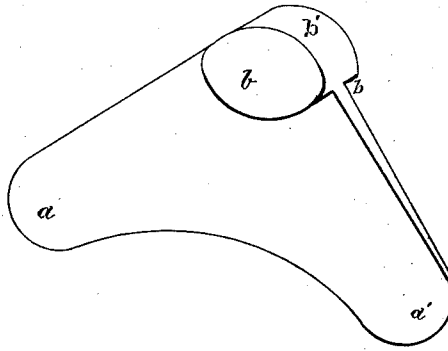


Fig 2.

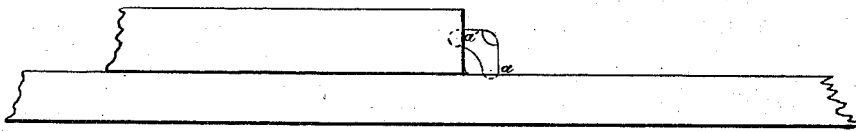
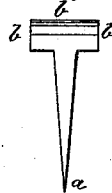


Fig 3.



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES A. WARFIELD, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN BENCH-KNIVES.

Specification forming part of Letters Patent No. **156,002**, dated October 13, 1874; application filed April 8, 1874.

To all whom it may concern:

Be it known that I, CHARLES A. WARFIELD, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improvement in Bench-Knife; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is an enlarged perspective of my invention. Fig. 2 is a side elevation of my invention in position when in use. Fig. 3 is a front or edge view.

My invention has for its object to provide a proper substitute for the device ordinarily employed by carpenters, and known as a "bench-knife," being usually the blade of a case-knife. My invention consists of a tool constructed as herein described and shown in the annexed drawing.

It consists of a single piece of metal, preferably cast-steel, of the peculiar shape shown, having two points, *a a'*, one for insertion in the bench and the other for engagement with the stuff being worked up by the carpenter,

and projections or ears *b b*, forming a boss, *b'* to enable it to be readily withdrawn from the wood by the aid of the claw-hammer. The back or boss of the tool is made of sufficient thickness to enable it to withstand without injury the blows necessary for driving into the wood, and in order to insure its ready insertion in the bench and stuff it is beveled from the under side of the boss *b'* to the points *a a'*.

This new tool will be found a convenience to the carpenter. It costs but little and answers admirably the purpose for which it is designed. It is easily inserted in the bench, holds the stuff firmly with which it engages, and when not in use may be readily withdrawn and put away.

What I claim as my invention is—

As a new article of manufacture, a bench-knife, constructed substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 1st day of April, 1874.

CHARLES A. WARFIELD.

Witnesses:

JNO. A. BELL,

M. DANL. CONNOLLY.