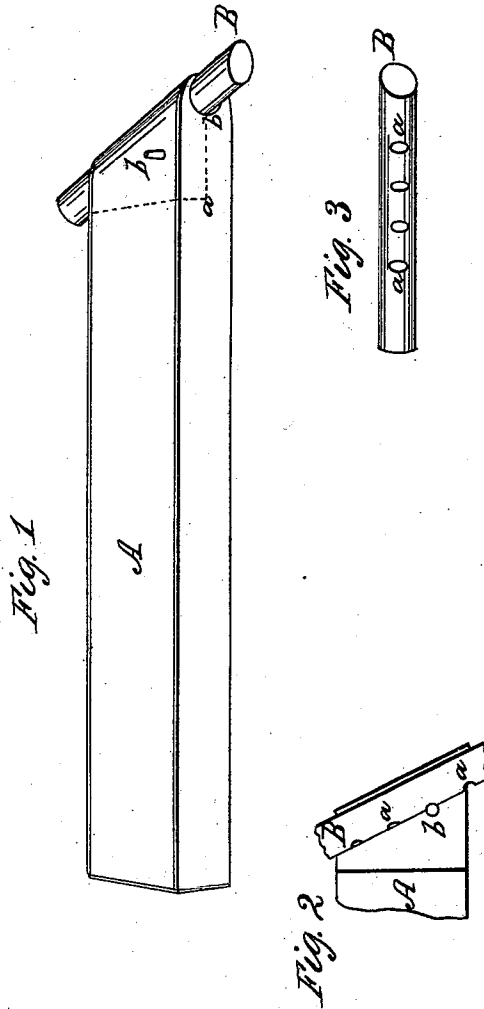


F. A. POTTER.
TOOL HOLDER.

No. 77,522.

Patented May 5, 1868.



Witnesses;

William W. Richard
E. Carrington Ames

Inventor;
Frederick A. Potter

United States Patent Office.

FREDERICK A. POTTER, OF NORTH PROVIDENCE, ASSIGNOR TO FALES, JENKS, AND SONS, OF SMITHFIELD, RHODE ISLAND.

Letters Patent No. 77,522, dated May 5, 1868.

IMPROVED TOOL-HOLDER.

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, FREDERICK A. POTTER of North Providence, in the county of Providence, and State of Rhode Island, have invented a new and useful Improvement in Tool-Holders; and I do hereby declare that the following specification, taken in connection with the drawings making a part of the same, is a full, clear, and exact description thereof.

Figure 1 is a view of the holder and cutting-tool in perspective.

Figure 2 is a sectional view, through the line *a b*.

Figure 3 represents the cutting-tool.

Various means have been contrived for holding an independent cutting-tool in a holder, involving much ingenuity, and attended with proportionate expense in construction. My improvement aims at the utmost simplicity of structure, but in point of utility the article which I produce is not surpassed by any of the many devices which have preceded it.

A is a rectangular bar of metal, of proper size to fit a tool-post. B is the cutting-tool, which may conveniently be made from a rod of jeweller's steel, and needs only to be ground properly at the point to be in the proper form for use. The side of the tool-bar should be furnished with nicks, *a*, and in form such as would result from the use of a tapering round file when applied to cut such nicks. A hole or mortise, in form corresponding with the tool-bar, is to be cut through the holder, and at any preferred angle with the axis of the holder, as shown.

From side to side, through the holder, and connecting with the hole or mortise which the tool is to occupy, a plain cylindrical and slightly-tapering hole is drilled, into which a pin, *b*, is to be fitted. The tool-bar is to be so set in the holder that some one of the nicks *a* upon its side will coincide with the surface of the hole which the pin *b* is to occupy. The pin *b* is now to be inserted, when the tool will be firmly secured in the holder. The relation which the tool-bar, the pin, and the holder bear to each other, is shown in section at fig. 2.

I am aware that a tool-bar has been, before my invention, furnished with nicks, and a holding-plate or catch has been used in combination with such tool so nicked, and the holder to aid in holding the cutting-tool.

I do not, therefore, claim broadly such combination; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

The arrangement of the holder A, the tool-bar B, and the holding-pin *b*, with reference to each other, substantially as described for the purposes specified.

FREDERICK A. POTTER.

Witnesses:

WILLIAM W. RICKARD,

E. CARRINGTON AMES.