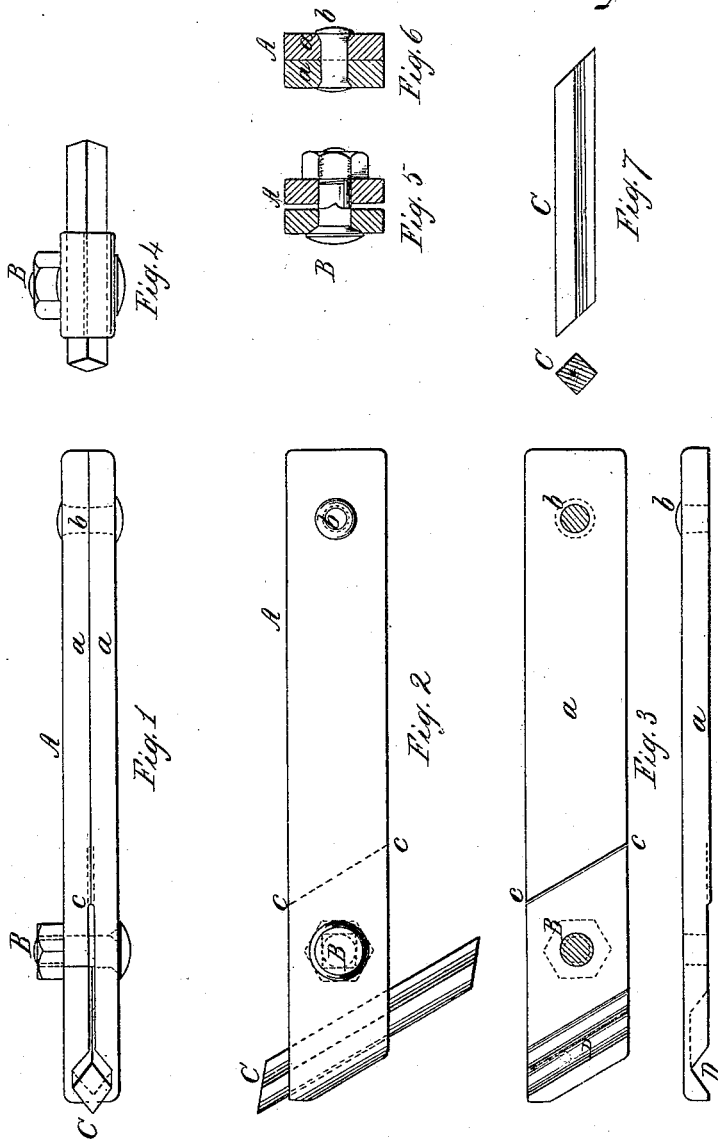


J. P. Manton,

Cutter Holder,

N^o 78,387,

Patented May 26, 1868.



Witnesses
J. Russell Field
Geo. H. Remington.

Inventor
J. P. Manton

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JOSEPH P. MANTON, OF PROVIDENCE, RHODE ISLAND.

Letters Patent No. 78,387, dated May 26, 1868.

IMPROVED HOLDER FOR LATHE-PLANERS.

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, JOSEPH P. MANTON, of the city and county of Providence, in the State of Rhode Island, have invented a new and useful Improvement in Tools for Lathes, Planers, and similar machines; 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 top view of the holder and its tool.

Figure 2 is a side view.

Figure 3 exhibits a side view of one of the halves of the holder, and also a top view of the same.

Figure 4 is an end view.

Figures 5 and 6 are parts to be referred to.

Figure 7 exhibits the cutting-tool.

It is advantageous to machinists employing lathes, planers, and like machines, to make use of tool-holders of iron, in which the cutting-tool can be secured, instead of forging, from steel, the tool and shank in one piece. The economy in time and material which results from the employment of independent tools and holders is well understood.

Various tool-holders have been heretofore devised, but all with which I am acquainted are objectionable, either on the score of inability to hold the tool firmly, so as to prevent its "chattering," or, if unobjectionable on this account, are costly in structure.

In the drawings, fig. 1, it will be seen that my improved tool-holder A consists of two bars, *a a*, of metal, placed side by side, the two so placed together being of the convenient dimensions to suit a tool-post. Near their rear ends, these two bars are held together by a rivet, *b*, or are otherwise firmly united, but a portion of their surfaces, in juxtaposition, say from their front extremities to the point *c*, is cut away. The purpose of so cutting away their surfaces is to enable that end of the holder to yield to the strain of a clamp-nut, B.

The tool C is set, at any convenient or preferred angle with the axis of the holder, in a mortise, D, one-half of such mortise being made in each of the bars making up the holder. The size and form of the mortise should correspond with the size and shape of the tool, but should be always such that, when the two parts *a a* of the holder are strained toward each other, at their forward end, by the clamp-nut B, the tool will be firmly gripped.

A tool-holder made as described can be manufactured at a comparatively trifling expense, as compared with others, for the same purpose, heretofore known, and, in point of strength and capacity to hold the tool firmly, is superior to any other.

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

A tool-holder, constructed substantially as herein described.

JOS. P. MANTON.

Witnesses:

WM. W. RICKARD,

C. L. PENDLETON,