

Israel F. Brown. Tool Holder.

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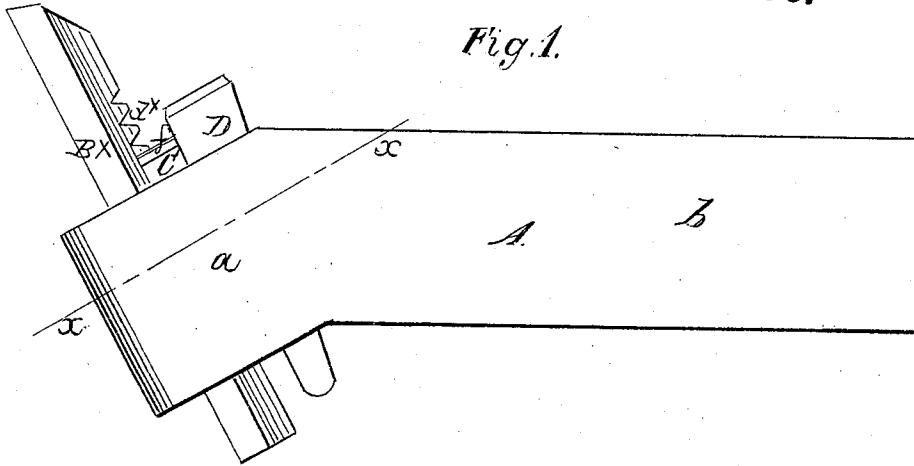


Fig. 2.

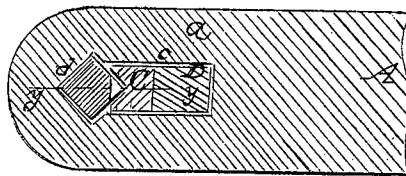


Fig. 5.

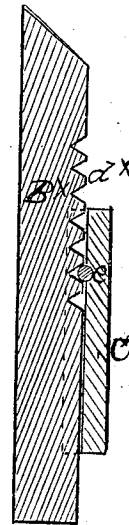


Fig. 3.

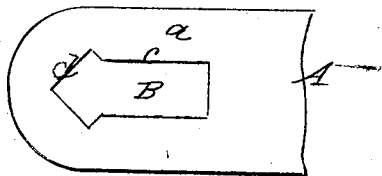
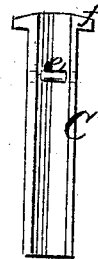


Fig. 4.



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ISRAEL F. BROWN, OF NEW LONDON, CONNECTICUT.

Letters Patent No. 72,447, dated December 24, 1867.

IMPROVED TOOL-HOLDER FOR SLIDE-REST.

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, ISRAEL F. BROWN, of New London, in the county of New London, and State of Connecticut, have invented a new and improved Tool-Holder for Slide-Rests; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to a new and improved tool-holder for slide-rests and other machines, and it consists in the employment or use of a V-shaped gib or key, in connection with notches in the tool, and a slot in the tool-holder, all being arranged in such a manner that the tool may be held firmly in position in the tool-holder, and at the same time be capable of being readily fitted in and removed therefrom. In the accompanying sheet of drawings—

Figure 1 is a side view of my invention.

Figure 2, a section of the same, taken in the line *x x*, fig. 1.

Figure 3, a plan or top view of the front part of the tool-holder.

Figure 4, a detached view of the V-shaped gib, showing the concave side.

Figure 5, a detached vertical section of the tool and gib, taken in the line *y y*, fig. 2.

Similar letters of reference indicate like parts.

A represents the tool-holder, which is a rectangular bar of iron, having its outer end, *a*, bent, to form an obtuse angle, with its main portion, *b*, as shown clearly in fig. 1. The front bent part *a* of the tool-holder has a slot, B, made entirely through it, which is of quadrilateral form the greater portion of its length, as shown at *c*, the front part *d* being of V-shape, with its inner end rather wider than *c*, (see figs. 2 and 3.) B^x represents the tool, which is of rectangular form in its transverse section, and is notched at one of its corners, as shown at *d*^x. C is a gib, which is of V-shape in its transverse section, so that it may fit over the notched corner of the tool, and the gib has a wire, *e*, passing transversely through it, as shown in figs. 4 and 5. The upper end of the gib is provided with a flange, *f*. D is a wedge or key, shown clearly in fig. 1. The tool B^x is fitted in the front V-shaped end *d* of the slot B, and the gib C and key D are fitted in the other part *c*, the wire *e*, in the gib, fitting in a notch, *d*^x, in the tool, and the key D, when driven in the slot B, keeps the wire *e* engaged with the notch, and holds all firmly in the holder.

The tool B^x may be adjusted higher or lower in the holder, by the wire *e* of the gib being adjusted in higher or lower notches, as may be required, and in certain cases the key D may be grooved longitudinally in V-form at one side, to operate both as a gib and wedge.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

The notches *d*^x, in the tool, in connection with the wire *e*, or its equivalent, in the V-groove, in the gib or key, substantially as and for the purpose set forth.

ISRAEL F. BROWN.

Witnesses:

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