

Israel F. Brown's Improved Lathe Tool Supporter.

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PATENTED JUL 4 1871

Fig. 1.

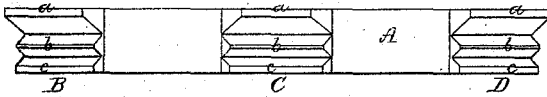


Fig. 2.

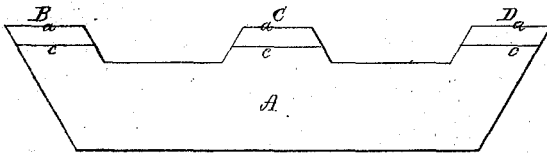


Fig. 3.

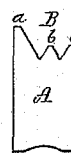


Fig. 4.

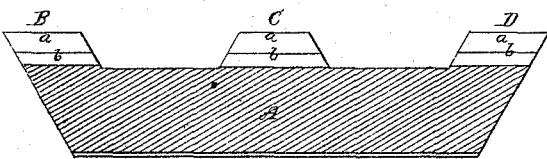


Fig. 5.



Witnesses

S. N. Piper

L. N. Mott

Israel F. Brown.

by his attorney.

N. H. Eddy

UNITED STATES PATENT OFFICE.

ISRAEL F. BROWN, OF NEW LONDON, CONNECTICUT.

IMPROVEMENT IN LATHE-TOOL SUPPORTERS.

Specification forming part of Letters Patent No. 116,545, dated July 4, 1871.

To all whom it may concern:

Be it known that I, ISRAEL F. BROWN, of the city and county of New London and State of Connecticut, have invented an Improved Lathe-Tool Supporter; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a top view; Fig. 2, a side elevation; Fig. 3, an end view; Fig. 4, a longitudinal section; and Fig. 5, a transverse section.

The article in question is for use in the tool-post of a lathe, and is to serve as a bed for the support of a tool formed of a triangular prismatic bar ground at one end to a cutting-edge.

In the drawing, A denotes a straight block or short bar of metal having three series, B C D, of angular projections *a b c* erected on its upper edge, and formed as shown. The angular grooves or spaces of the outermost projections decline a little toward the grooves of the middle projection, and it will be observed that the projection *a* of each series is extended above the others about double their heights. The projections *a*, there-

fore, constitute abutments to support the tool against the pressure in a transverse direction to which it is subjected while in the act of turning an article in a lathe. The grooves or spaces between the projections serve as sockets to receive the angular edge of the tool. The large tool-post clamp-screw, for holding the tool in place, is to bear on it directly over the middle series C of projections, and, in consequence of the grooves or spaces between these latter projections being a little lower than those corresponding grooves of the external projections, the tool will be set so firmly down as to be prevented from "chattering" while in action.

I claim—

The lathe-tool supporter made as described, viz., as consisting of the bar A and the three series of abutments *a a a*, and lower projections *b c*, arranged with and extended from such bar, as and for the purpose as specified.

ISRAEL F. BROWN.

Witnesses:

R. H. EDDY,
S. N. PIPER.