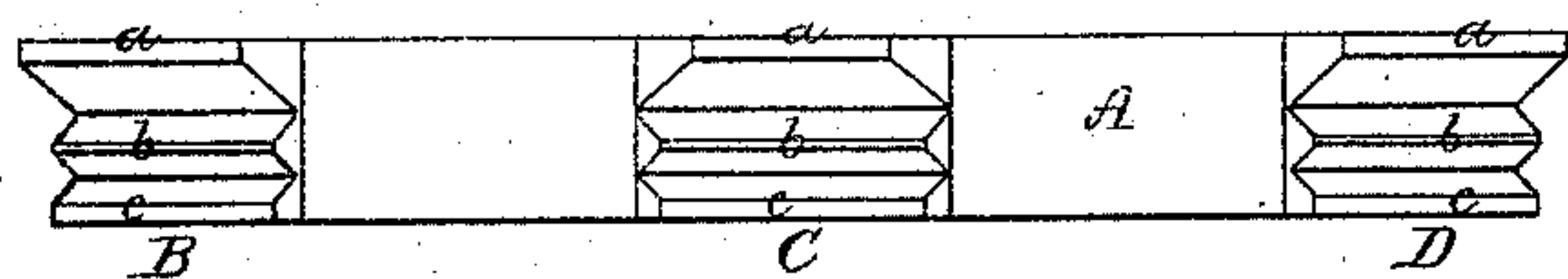


*Israel F. Brown's Improved Lathe Tool Supporter.*

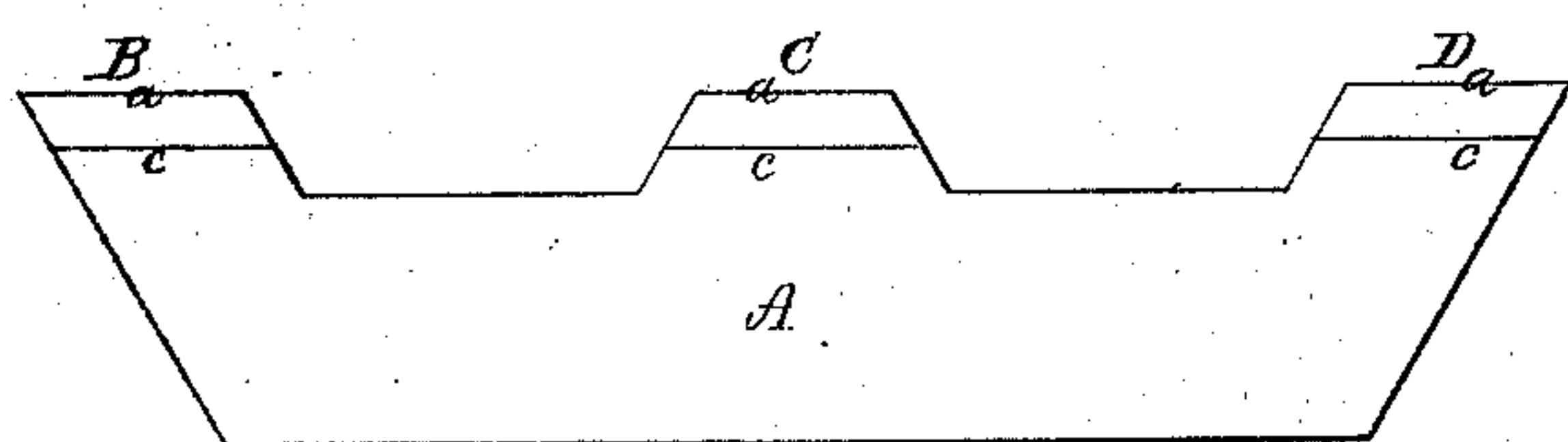
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*Fig. 1.*



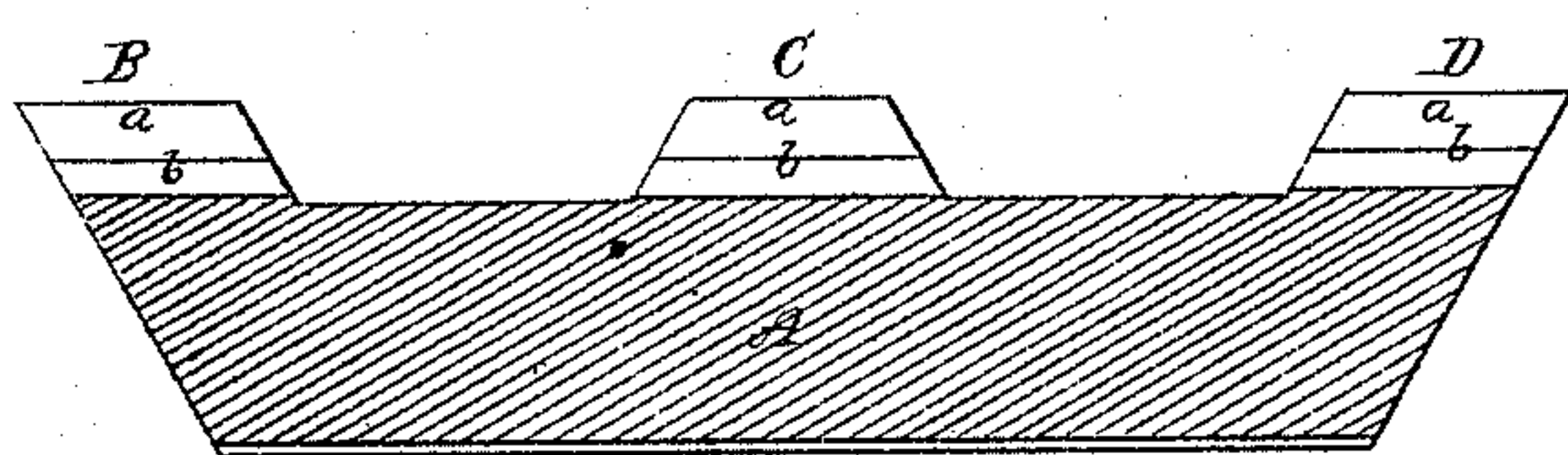
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



Witnesses

S. N. Piper

L. N. Mollen

Israel F. Brown.

by his attorney

W. 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.