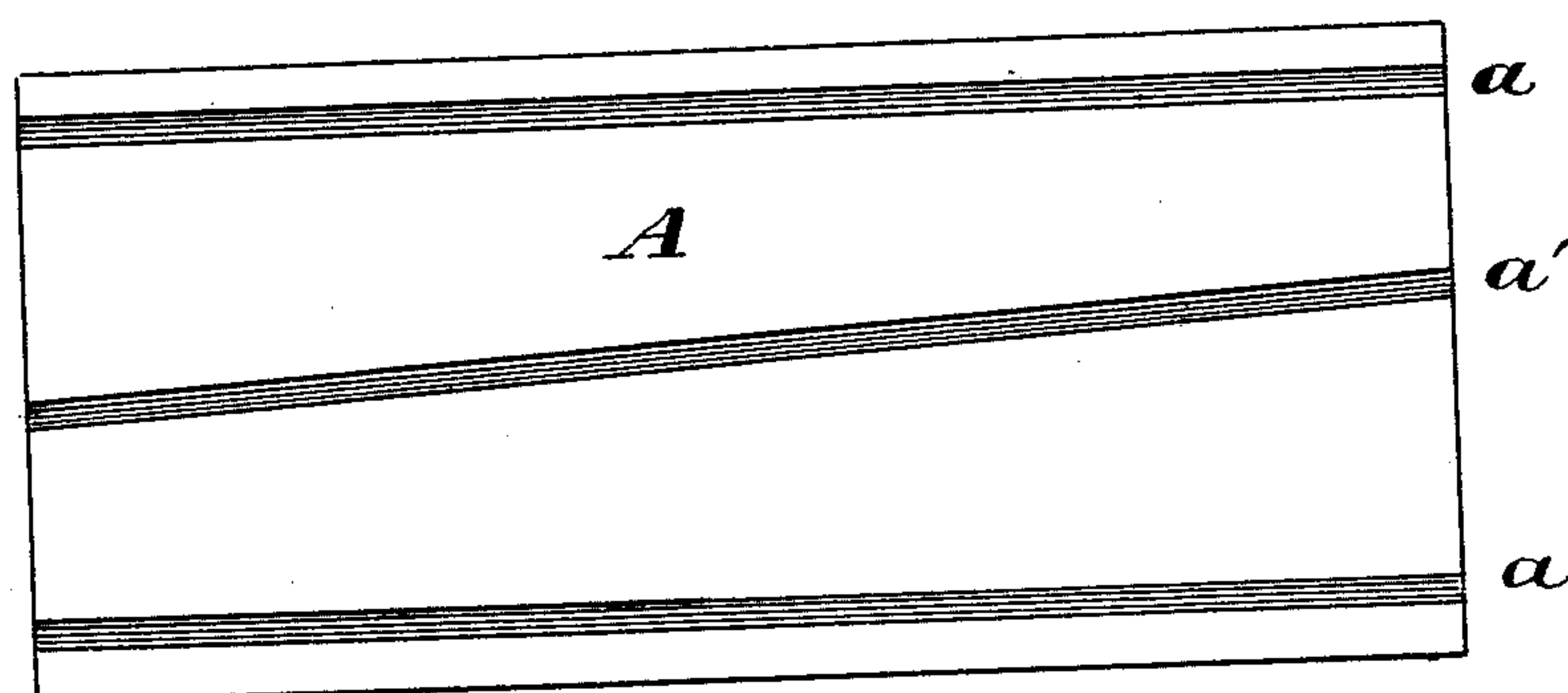
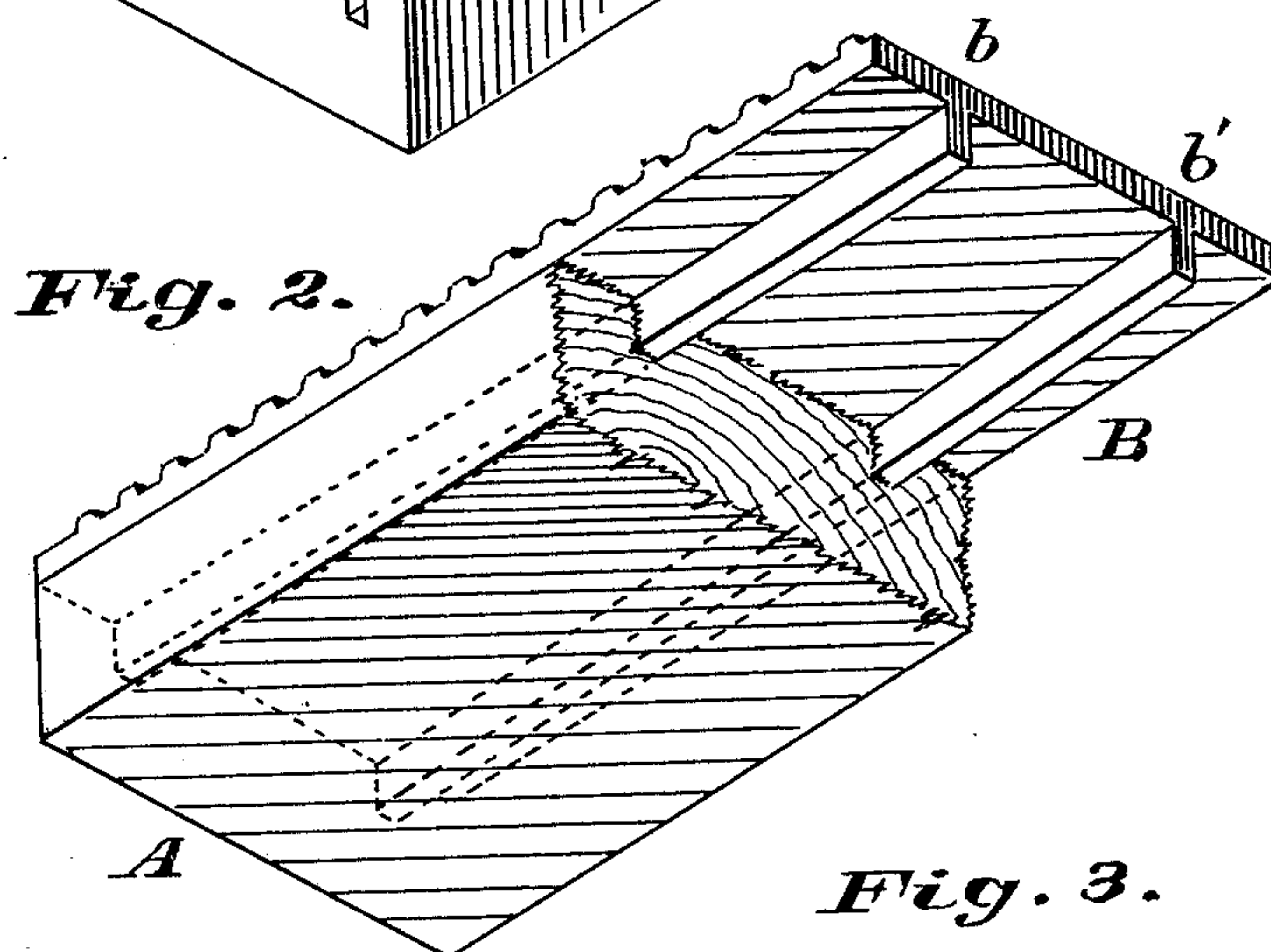
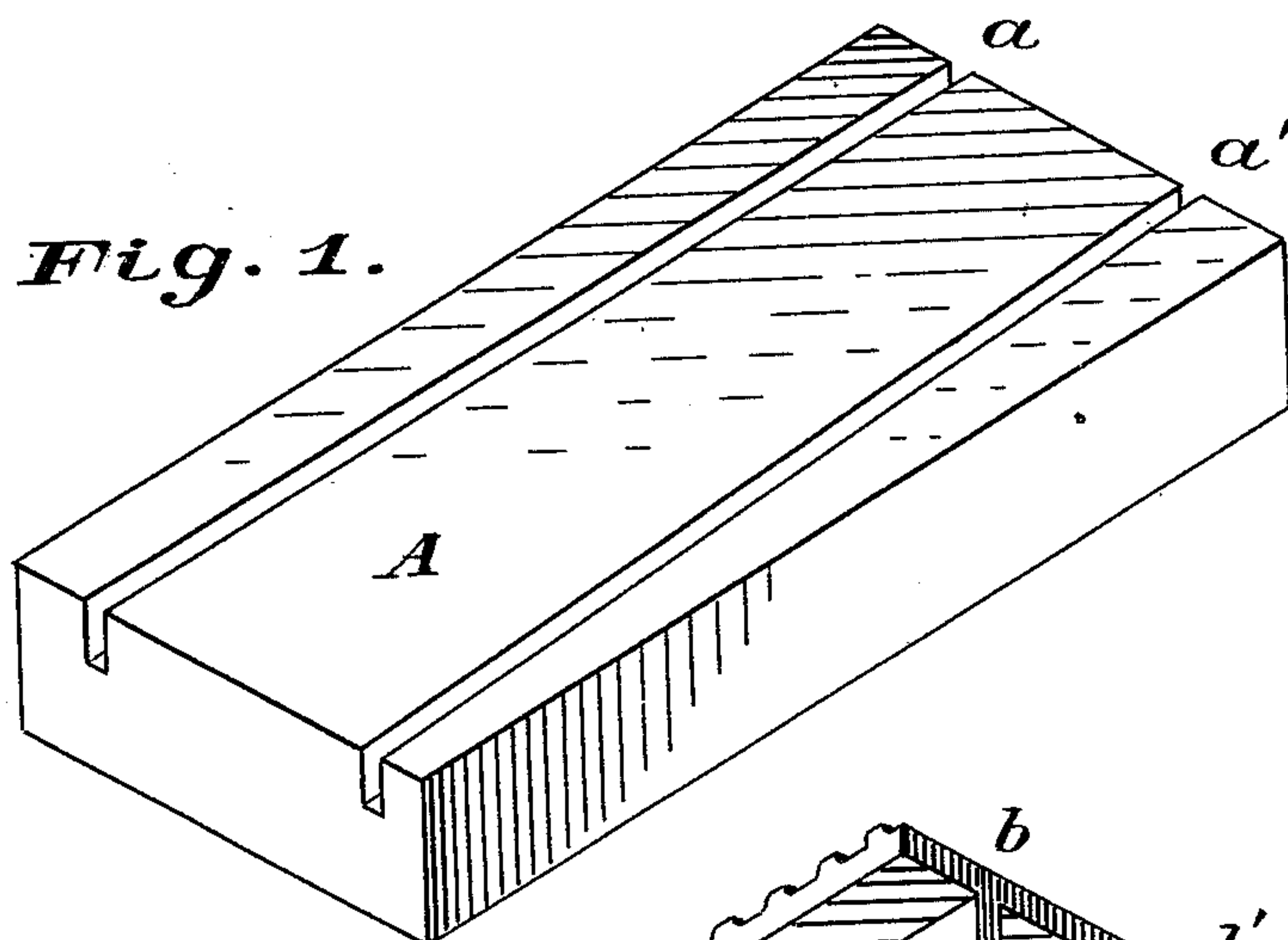


(No Model.)

E. P. BROWN.
Stereotype.

No. 229,861.

Patented July 13, 1880.



Attest
P Knight
Walter Allen

Inventor.
Elijah P. Brown.
By Knight Bros
attys

UNITED STATES PATENT OFFICE.

ELIJAH P. BROWN, OF CINCINNATI, OHIO.

STEREOTYPE.

SPECIFICATION forming part of Letters Patent No. 229,861, dated July 13, 1880.

Application filed March 20, 1880. (No model.)

To all whom it may concern:

Be it known that I, ELIJAH P. BROWN, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Stereotypes, of which the following is a specification.

My invention is an improvement on those stereotypes whose metallic portion or type proper is secured to the wooden back by pouring the molten type-metal into a suitable mold in contact with a back which has been previously excavated to receive a portion of the metal, so as to lock or anchor the metallic face firmly to its back. To effect this it has been customary to form in the wooden back a somewhat elaborate system of intersecting and undercut grooves, some of which had more or less lateral obliquity.

My improvement consists in forming in the plate side of the wooden back two or more simple grooves having such longitudinal obliquity with each other as to allow of the type-plate being wedged up in either direction after the shrinkage of the block that ensues from the customary washing of the same in alkaline water.

In the accompanying drawings, Figure 1 is a plan view of a wooden back prepared on my plan. Fig. 2 is a perspective rear view of a mounted stereotype from which a portion of the back has been broken away. Fig. 3 is a top view of a three-grooved back on my plan.

That side of the back A which is to receive the type-plate has two or more grooves or kerfs, *a a'*, of which one or more, *a'*, are longitudinally oblique to the others. This back being secured with its grooved surface inward within the stereotype-mold, the latter is charged with molten type-metal, a portion of which, flowing into and filling the grooves *a a'*, operates to anchor the type-plate firmly to its back.

The relative longitudinal obliquity of the anchoring-tongues *b b'* within the corresponding grooves *a a'* operates to securely hold the type-plate against displacement upon its back.

For plates filled with solid matter and those of small area two grooves and corresponding anchor-tongues, such as shown in Figs. 1 and 2, are sufficient; but one or more additional anchors may be used, when desired, as seen in Fig. 3.

I am aware that it has been proposed, in the patent granted to F. H. Aiken, November 21, 1871, and numbered 121,036, to form longitudinal and transverse grooves in the face of a stereotype-back, and that it has been designed to place such back in a mold and to cast thereupon a metal plate. I therefore do not broadly claim grooving the faces of stereotype-backs and then casting a stereotype-plate thereupon, my invention consisting in forming in the face of the back grooves that are longitudinally oblique to each other in plan view, by which means, in the event of the subsequent shrinkage of the back, the plate may be wedged up in one direction or the other by a slight tap of a mallet or other tool, and will thus be held as securely to the block as if it had been newly cast thereon.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

The stereotype-plate B, secured to its wooden back A by two or more longitudinally-oblique tongues, *b b'*, which occupy corresponding grooves *a a'* in the back, as and for the purpose set forth.

In testimony of which invention I hereunto set my hand.

ELIJAH P. BROWN.

Attest:

GEO. H. KNIGHT,
J. L. LOGAN.