

(No Model.)

E. C. JUDD.

LAST FOR BEATING OUT MACHINES.

No. 319,096.

Patented June 2, 1885.

Fig. 1.

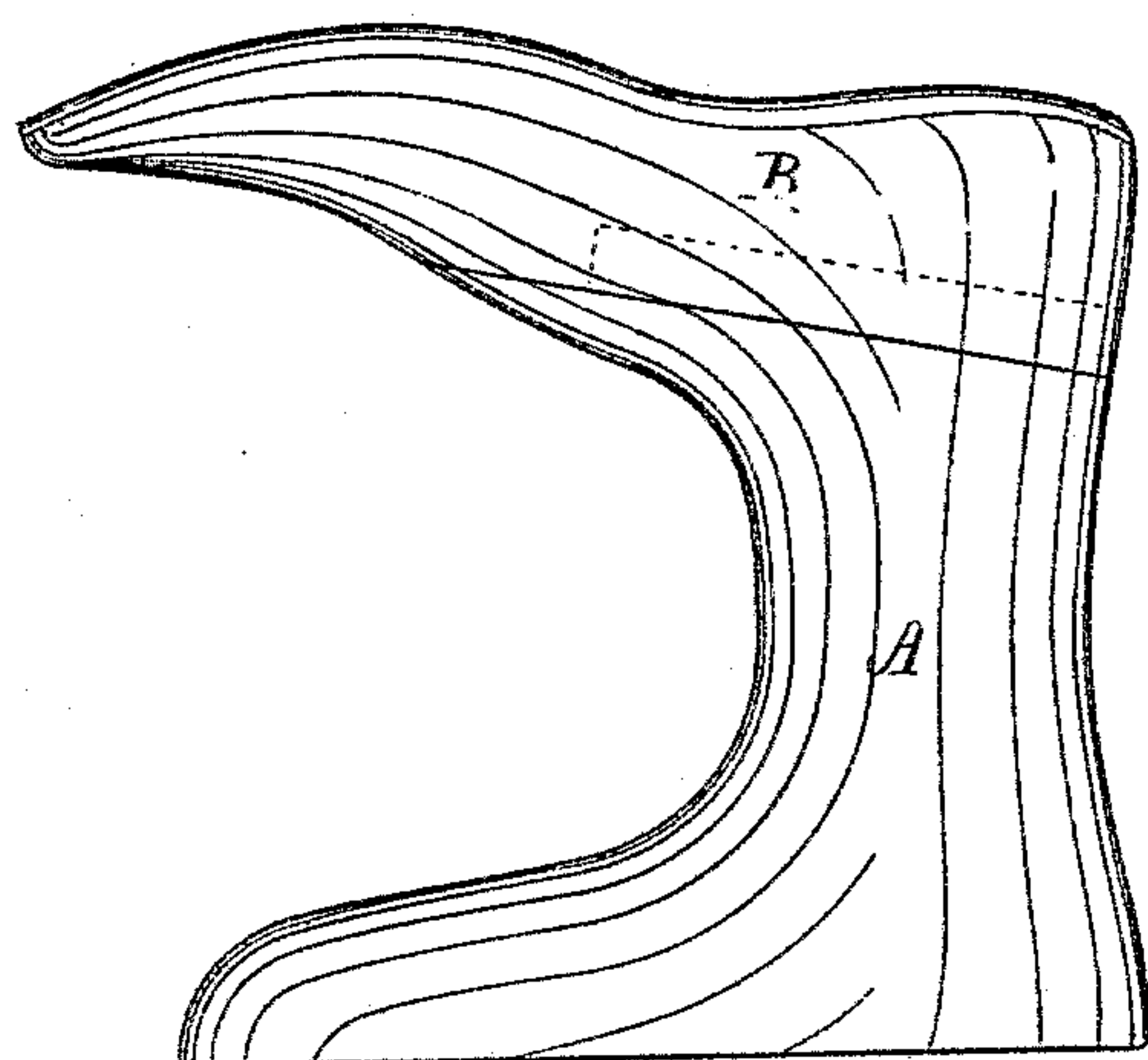


Fig. 2.

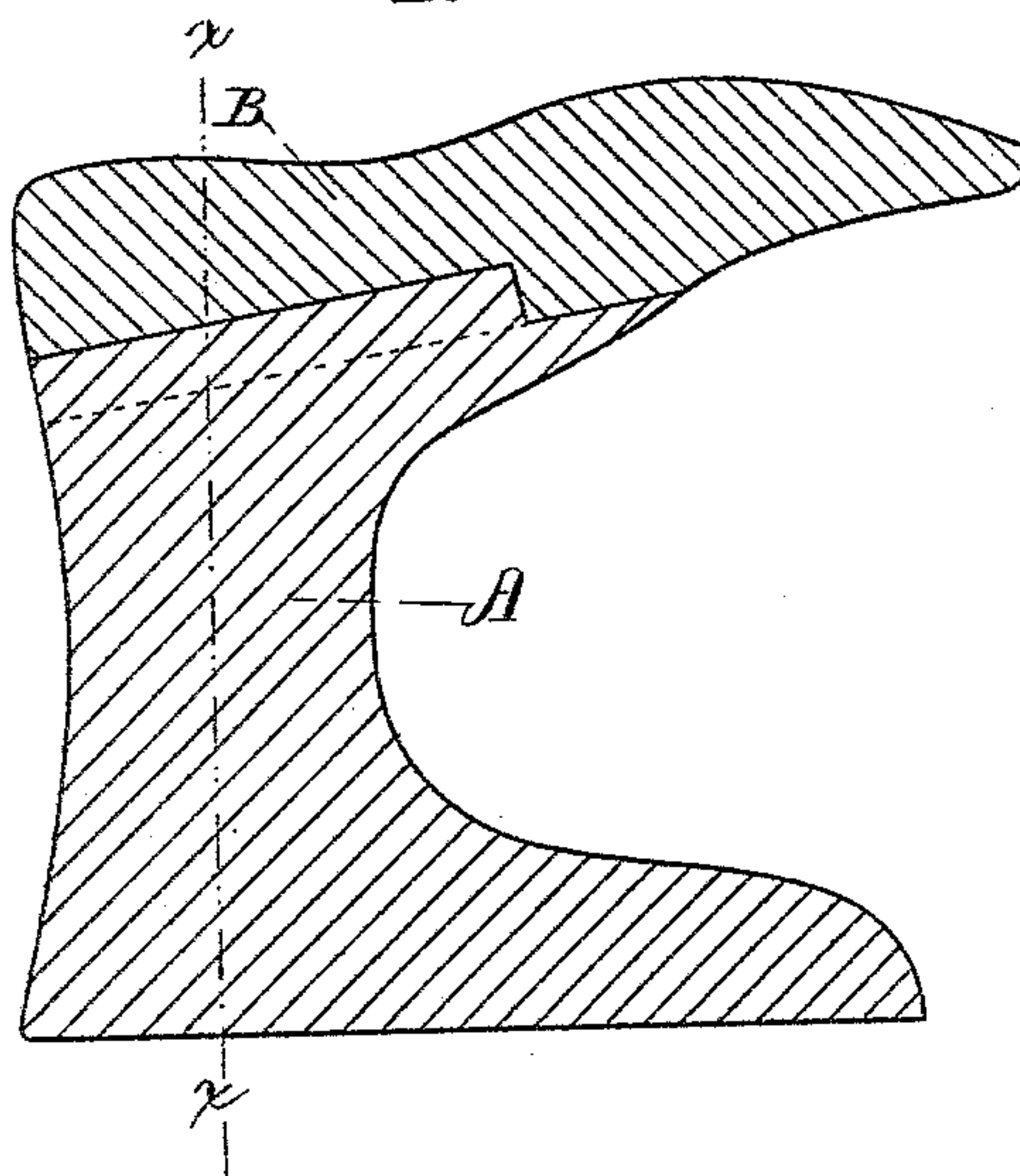


Fig. 4.

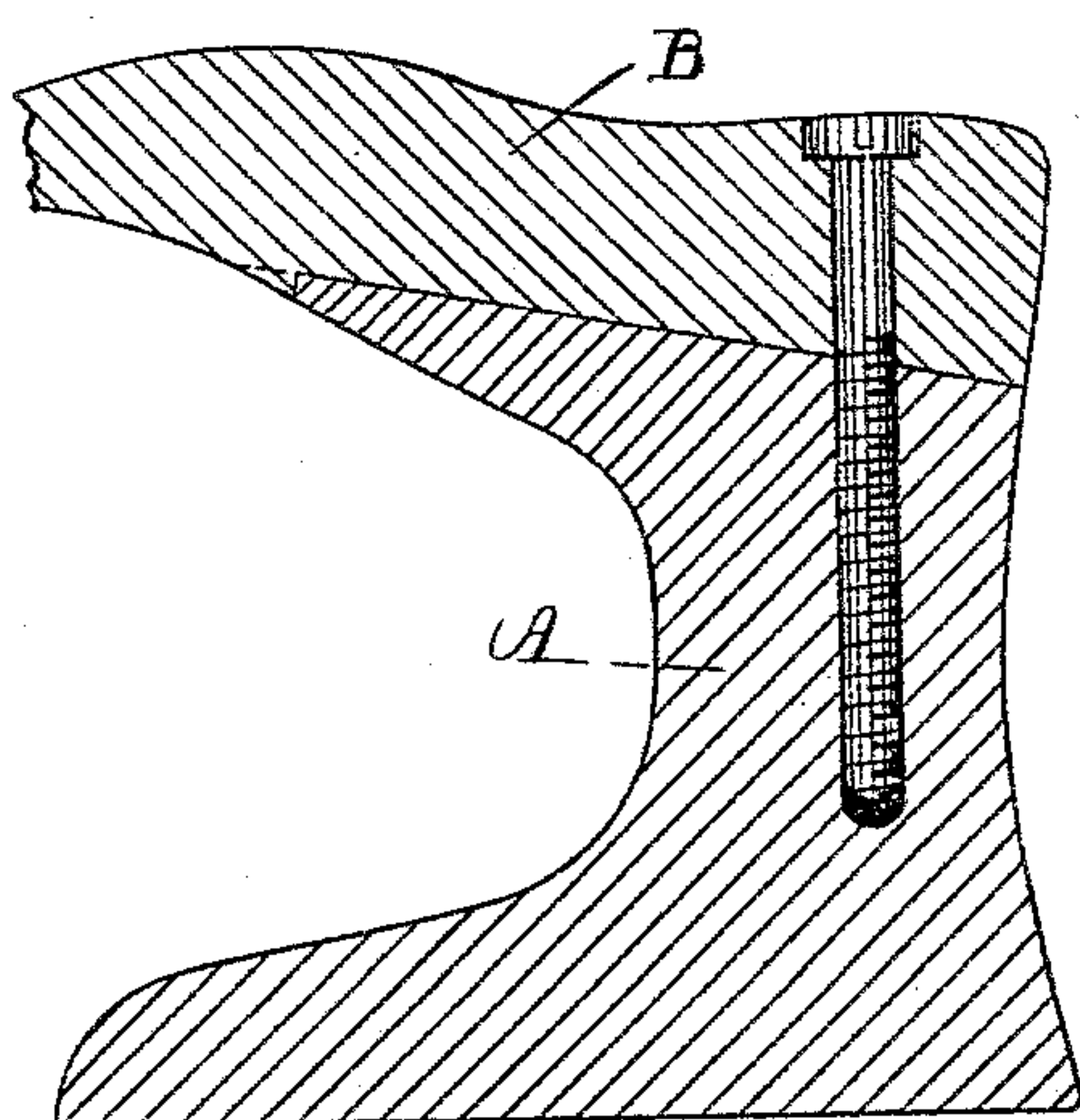


Fig. 3.

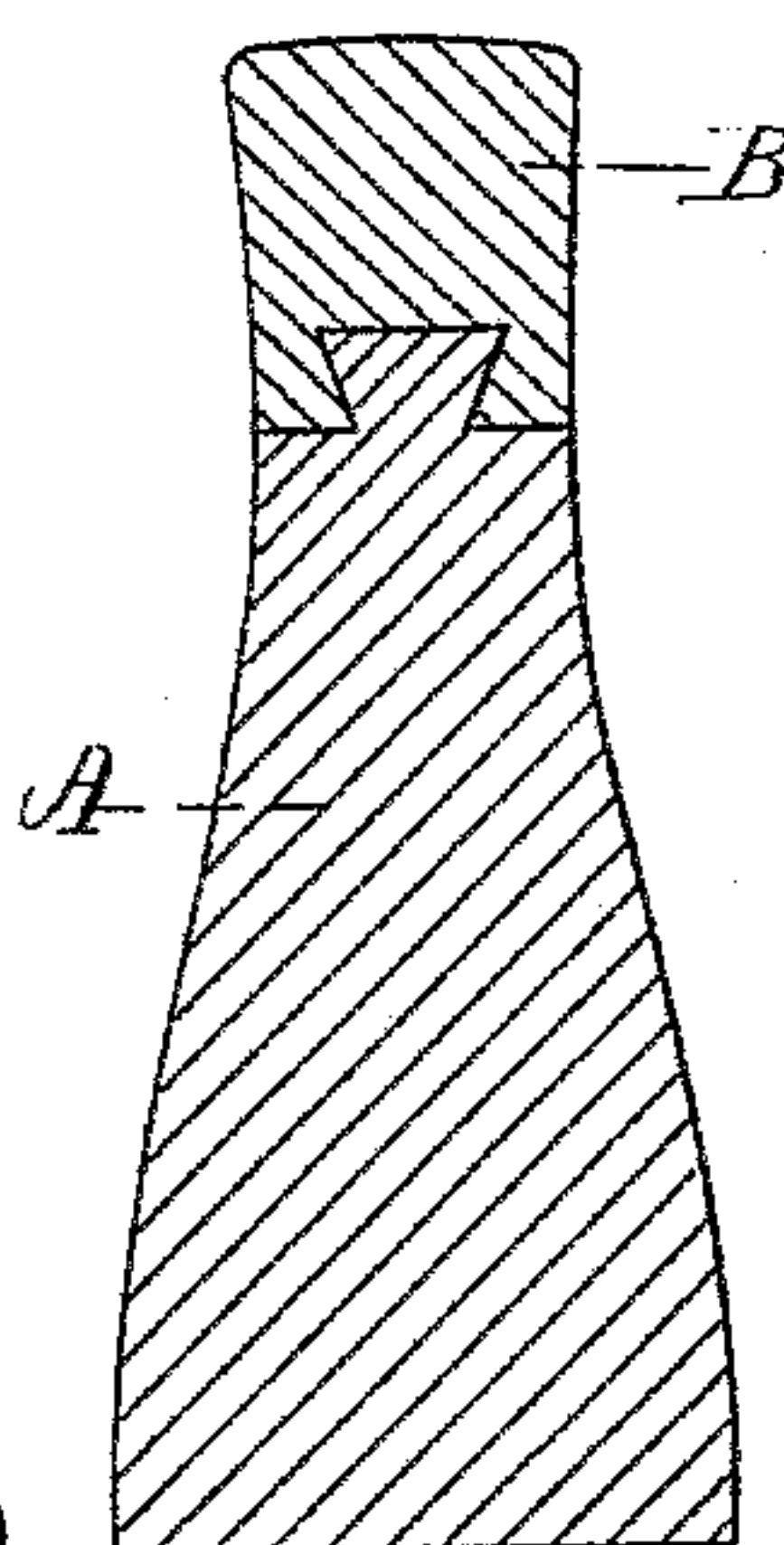
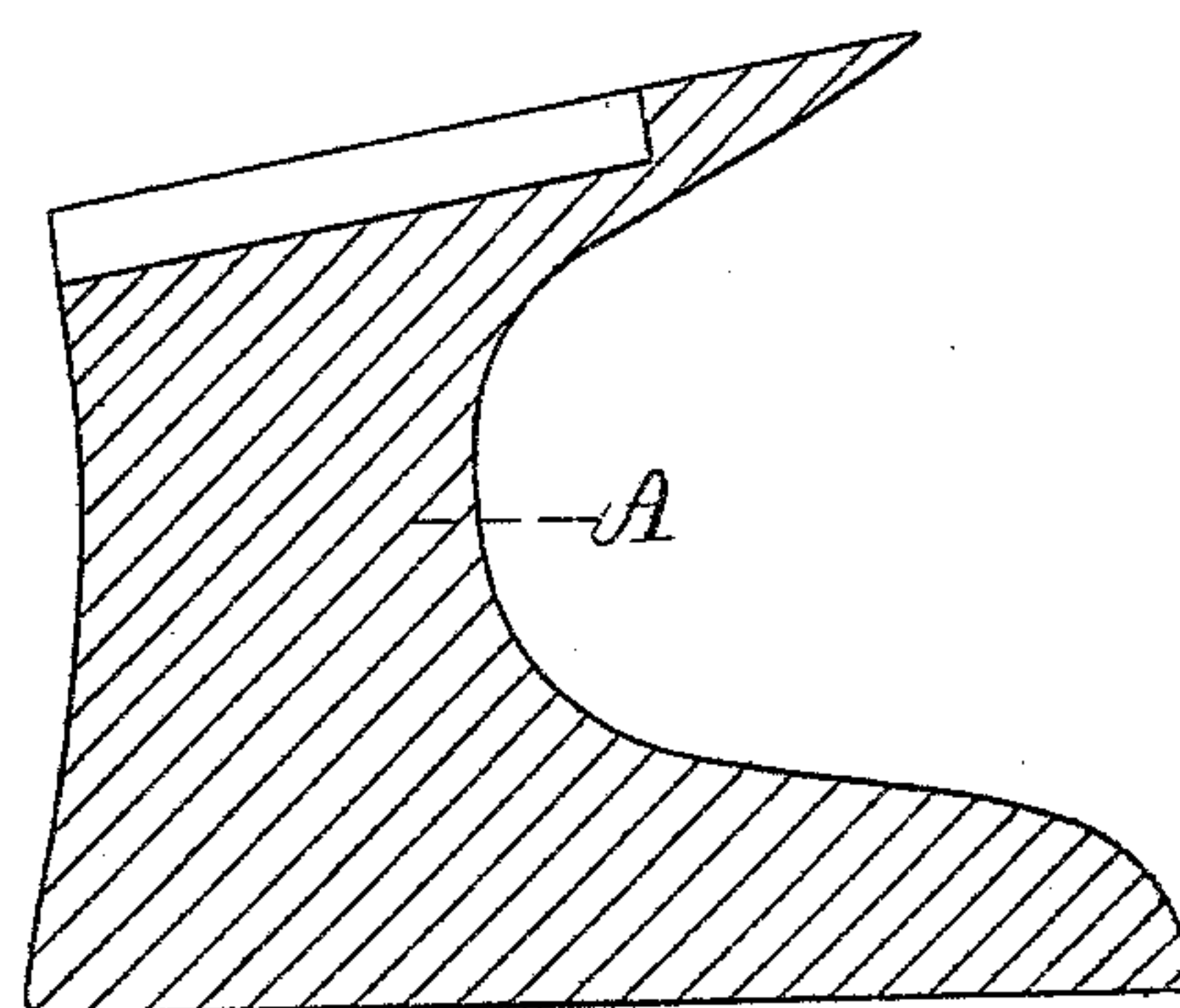


Fig. 5.



Witnesses.

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LAST FOR BEATING-OUT MACHINES.

SPECIFICATION forming part of Letters Patent No. 319,096, dated June 2, 1885.

Application filed December 29, 1884. (No model.)

To all whom it may concern:

Be it known that I, EDWARD C. JUDD, a citizen of the United States, residing at Lynn, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Lasts for Beating-Out Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form part of this specification, of which—

Figure 1 is a side view of a last-supporting base provided with a rib on which is adjusted the last B, the said base being marked A. Fig. 2 is a longitudinal and sectional view of the same. Fig. 3 is a vertical cross-section of the same through the line *x*. Fig. 4 is a longitudinal section of a last-supporting base having a last secured thereto by means of a screw. Fig. 5 is a longitudinal and sectional view of a last-supporting base having a groove to receive a last with an appropriate tenon.

My invention relates to an improved construction of the base of the last generally used in machines for pressing the soles of boots and shoes, and described in Letters Patent No. 75,428; and it consists, mainly, in forming a base whereon different sizes or styles of sole-molding top pieces may be fitted so that the whole may be capable of resisting the immense pressure of such a machine, while provision is made for exchanging one top piece for another.

I am aware that lasts having a stem on which a changeable top last is supported are described in Letters Patent No. 283,587. These lasts may be inverted, and have no such base as is necessary to enable my improved last to perform its functions. The base of my improved last is so made that it cannot be converted to the purposes of molding a sole, as described in said patent.

In carrying out my invention it is necessary to construct a base the under surface of which shall rest firmly and squarely on the plate on

which it is held in a beating-out machine, of such thickness as shall give adequate support to the column on which the molding piece is to be fixed. The upper portion of the base projects forward, and is provided with a rib or groove on which lasts with a groove or rib may be fitted. I prefer to dovetail the connections between the lasts and their bases, and to form the upper surface of the base with a rib at an angle of about ten degrees with the lowest.

When the last described in said Letters Patent No. 75,468 is used, six sizes are required to meet the ordinary differences in the size of shoes, and also as many as are equal to the various styles of soles. Thus an inconvenient weight of material accumulates in the shop of the manufacturer, who is greatly relieved by being able to use the same base for any last. There are about two inches of the variation of different sizes from the smallest to the largest-sized last like that used in a beating-out machine; hence the rib or groove may be of a length to fit the corresponding parts of the smallest last, inasmuch as the heel part of the larger size may project from the rear of the base without injury, the center of pressure being at a point near the ball part of the ball of the sole. Obviously the rib or grooves may be supplemented with blocks in an obvious way, in order to adapt the base to the larger sizes without leaving them to project as suggested.

I do not claim an invertible last; nor do I claim the combination of two lasts by means of a mortise-and-tenon connection.

What I claim is—

A last-supporting base or standard for attachment to a beating-out machine, having a last-supporting surface provided with a groove or tenon adapted to receive lasts of different sizes or styles, and having a bottom flat surface, substantially as set forth.

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Witnesses:

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