

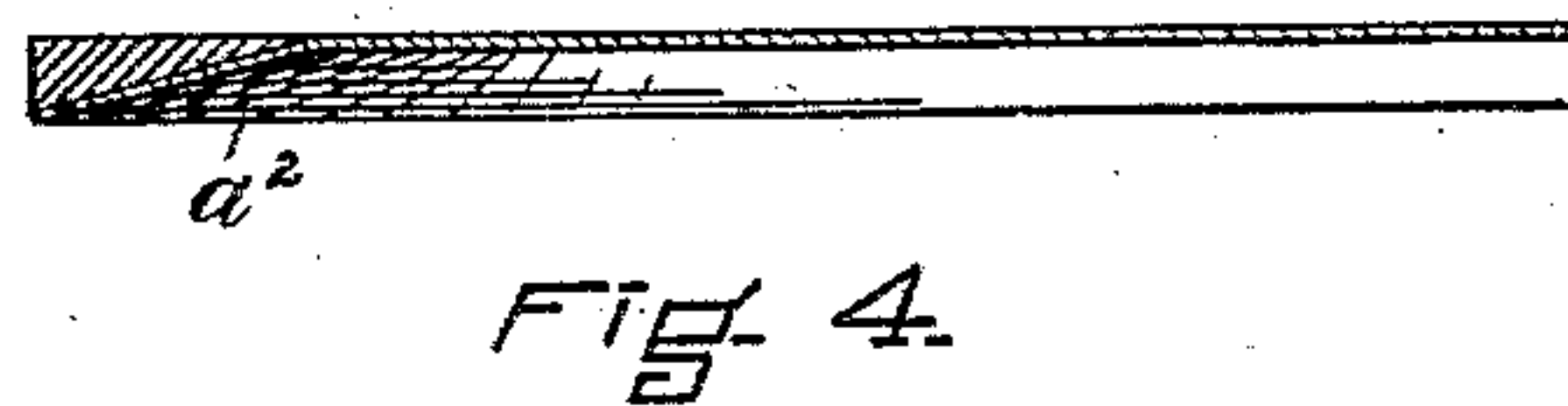
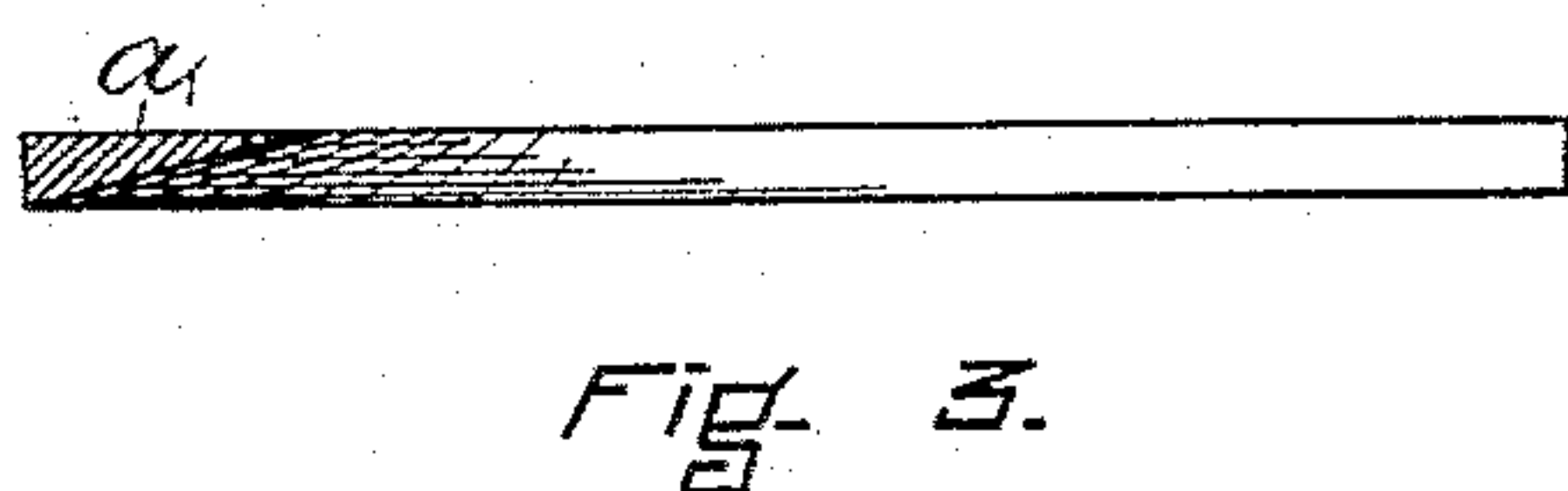
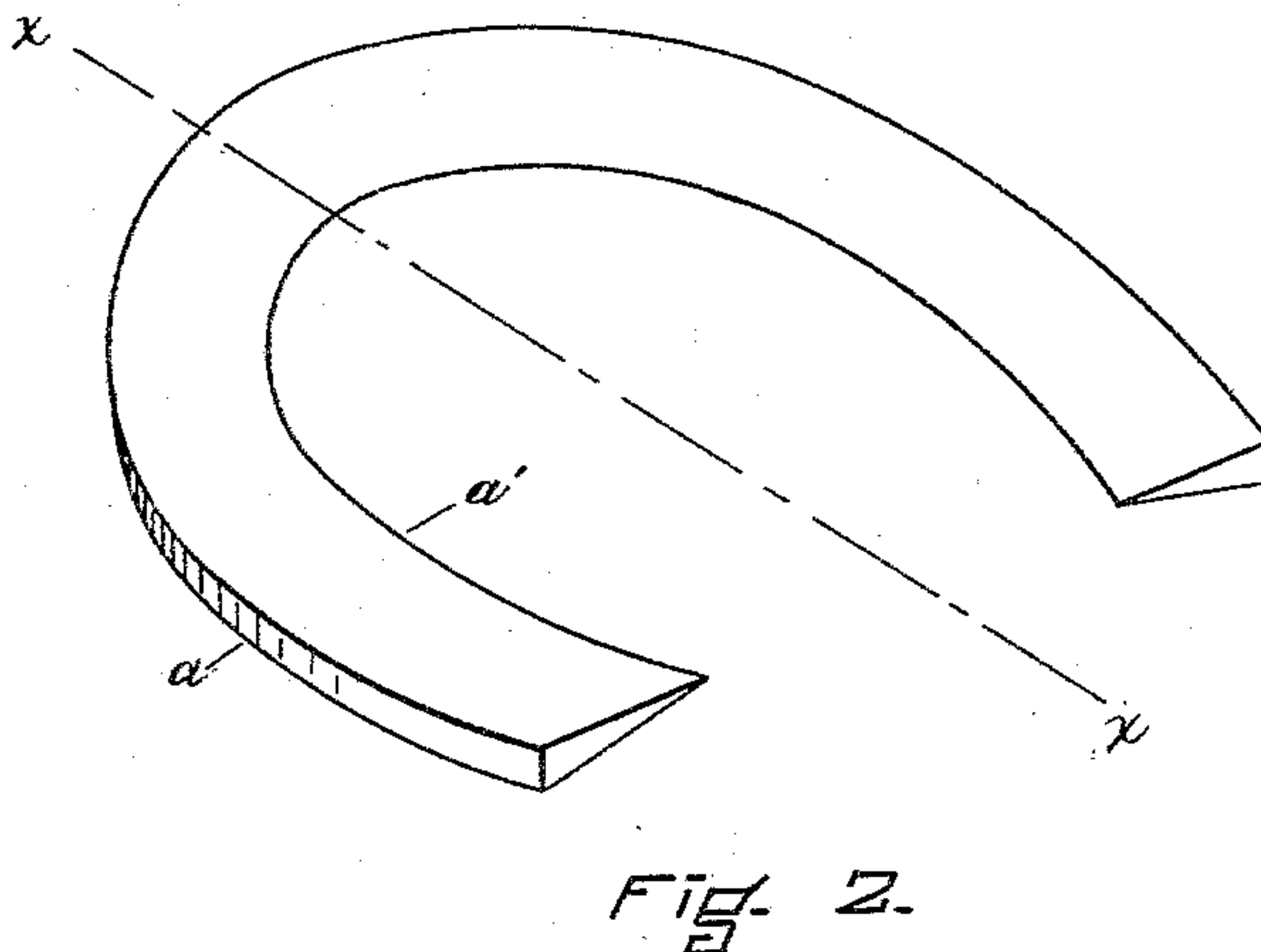
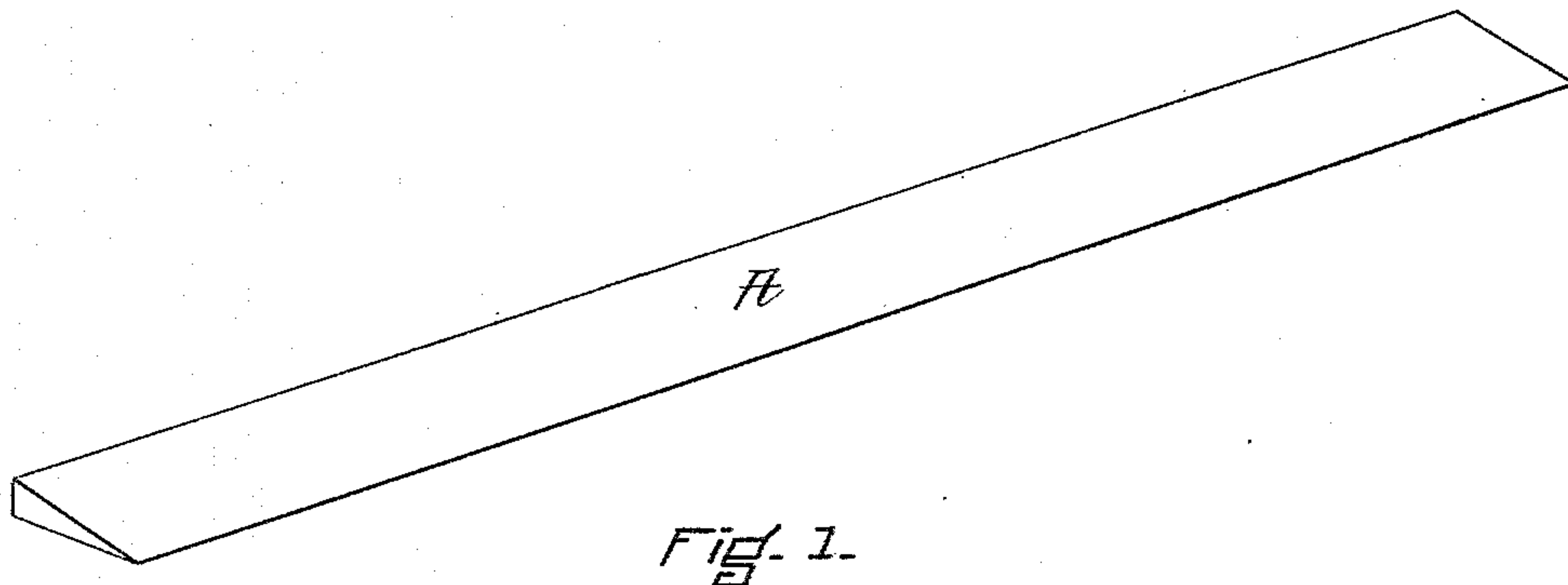
(No Model.)

F. F. RAYMOND, 2d.

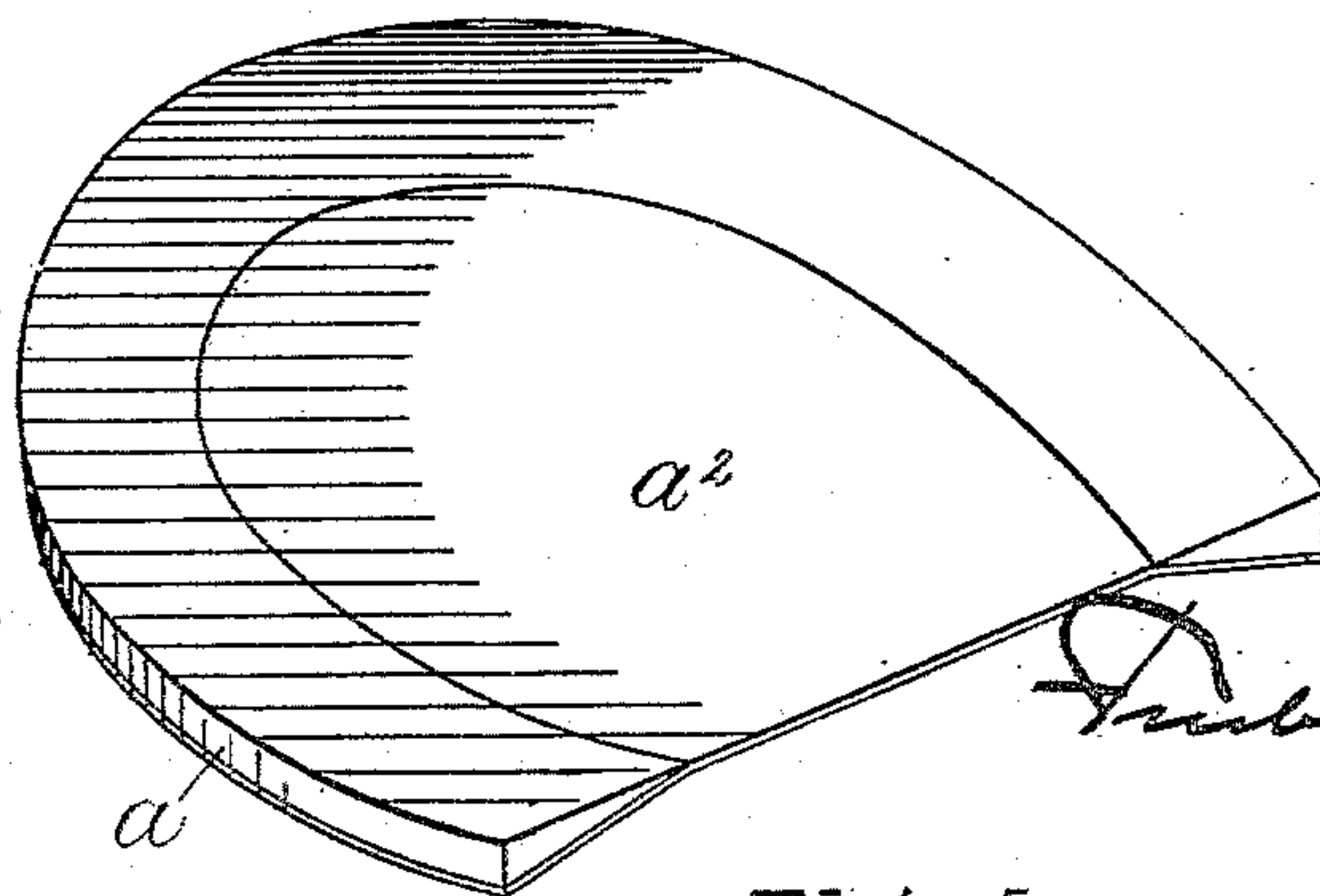
RAND AND PROCESS OF MAKING THE SAME.

No. 356,890.

Patented Feb. 1, 1887.



WITNESSES.
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RAND AND PROCESS OF MAKING THE SAME.

SPECIFICATION forming part of Letters Patent No. 356,890, dated February 1, 1887.

Application filed November 1, 1886. Serial No. 217,659. (No model.)

To all whom it may concern:

Be it known that I, FREEBORN F. RAYMOND, 2d, of Newton, in the county of Middlesex and State of Massachusetts, a citizen of the United States, have invented a new and useful Improvement in Rands and Process of Making the Same, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature.

Heretofore rands have been made generally in long strips, and are not shaped to their ultimate form until the act of applying them to the boot or shoe in which they are used, when they are moistened and turned and fitted as they are attached. This process is slow and expensive, as it is done by hand and requires skilled labor to form and fasten them.

My invention relates to a formed rand, or one that is prepared for immediate use by being previously shaped to the desired form or configuration.

In practicing my invention I take stock of suitable character and cut or split it into desired lengths and of the desired thickness and taper. This strip thus formed is then moistened, and while in a moist or tempered condition is coated upon one or both surfaces with a sizing or glue, and is then formed in suitable molds to the desired shape—that is, to the shape of the heel of a boot or shoe—and while in this shape it is compressed so that the wrinkles formed by folding or turning are flattened down, and a desirable result obtained. The glue or size used should be of a kind to dry very quickly and set the rand while it has the form given it by the mold.

If desired, Manila or other paper or fibrous material may be placed in the press to be attached to one surface of the rand by the glue, so that upon its removal from the mold the rand will be held to shape upon the paper.

Referring to the drawings, Figure 1 is a view in perspective of the welt-forming strip. Fig. 2 is a view in perspective of a complete-formed welt. Fig. 3 is a section upon the line *xx* of Fig. 2. Fig. 4 is a section illustrating a welt having a paper holding-strip. Fig. 5 is a view showing a complete welt and an independent or separate holding-strip or piece of paper or other suitable material.

A represents the strip as prepared for use. It is first tempered and then coated upon one or both surfaces with sizing or glue, preferably a glue of the nature of fish-glue. It is then submitted to the action of a suitable forming device, whereby it is turned to the shape represented in Fig. 2—that is, it has the curved outer edge, *a*, and the curved inner edge, *a'*—and it is then submitted to pressure, whereby the puckers or wrinkles are smoothed out and the leather solidified. This also drives the glue or sizing into the stock, and to a certain extent dries it and causes it to hold the leather in its compressed or molded form.

In Figs. 4 and 5 I show the rand as covered upon one surface with a layer of paper or other fibrous material, *a*², which preferably extends entirely across it, and which has the edge configuration of the rand, and is preferably united thereto in the act of compressing the rand to shape.

A rand of this character is of course a merchantable article, and it is an improvement over the old form of rand in that it can be readily handled, applied, and attached.

Having thus fully described my invention, I claim and desire to obtain by Letters Patent of the United States—

1. The improvement in the process of making rands, consisting in taking a straight strip of stock thicker upon one edge than the other, tempering the same, coating one or both surfaces with glue or other composition of a similar nature, forming the same to the desired curvature, and submitting it to compression, substantially as described.

2. As an improved article of manufacture, a formed rand made from a flat strip of stock thicker at one edge than the other, and having a layer of glue or sizing upon one or both surfaces thereof, whereby its formed shape is maintained, substantially as described.

3. As an improved article of manufacture, the formed rand having the paper or other fibrous layer *a*² glued or cemented to one surface, as and for the purposes described.

FREEBORN F. RAYMOND, 2d.

Witnesses:

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