

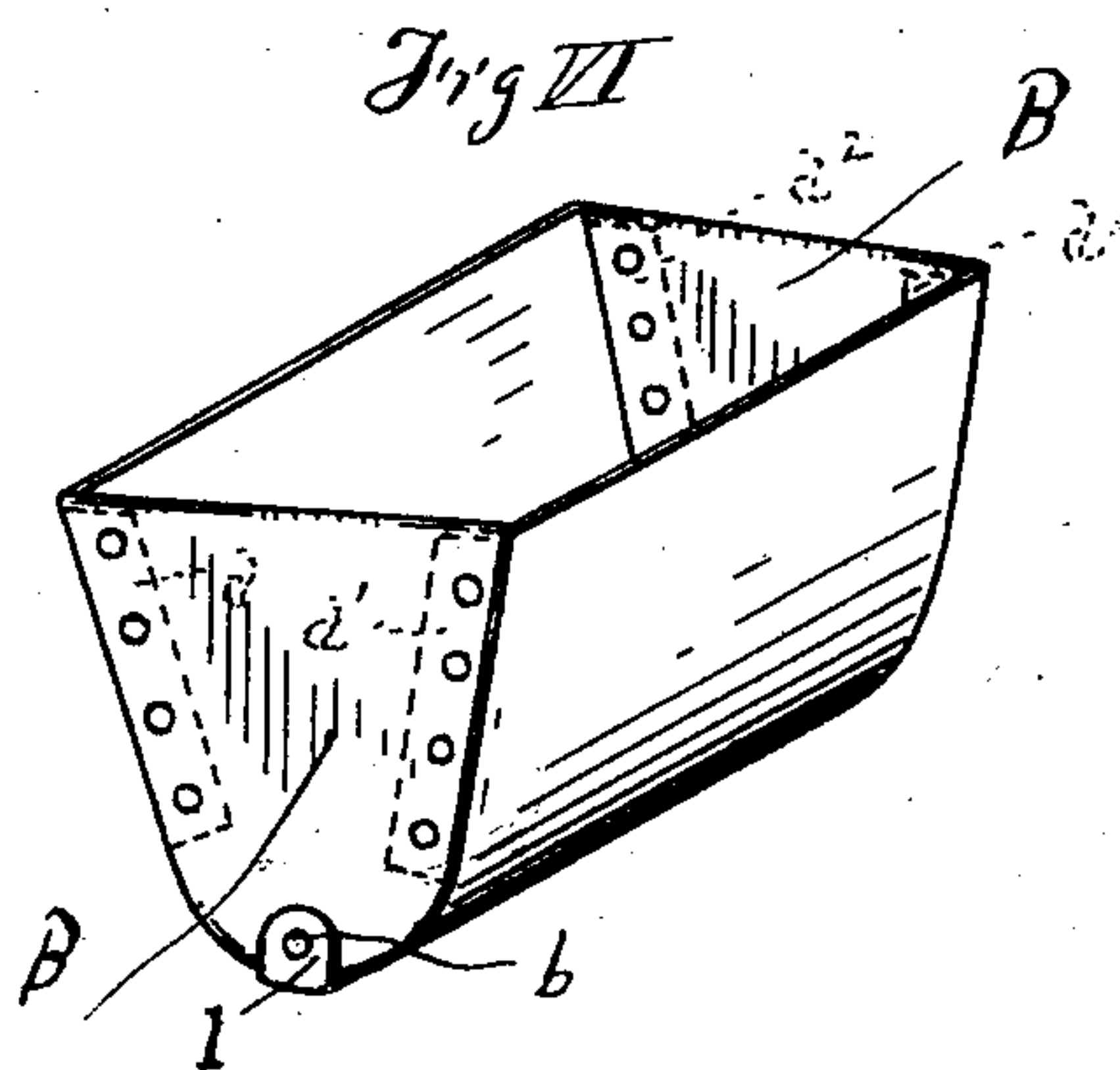
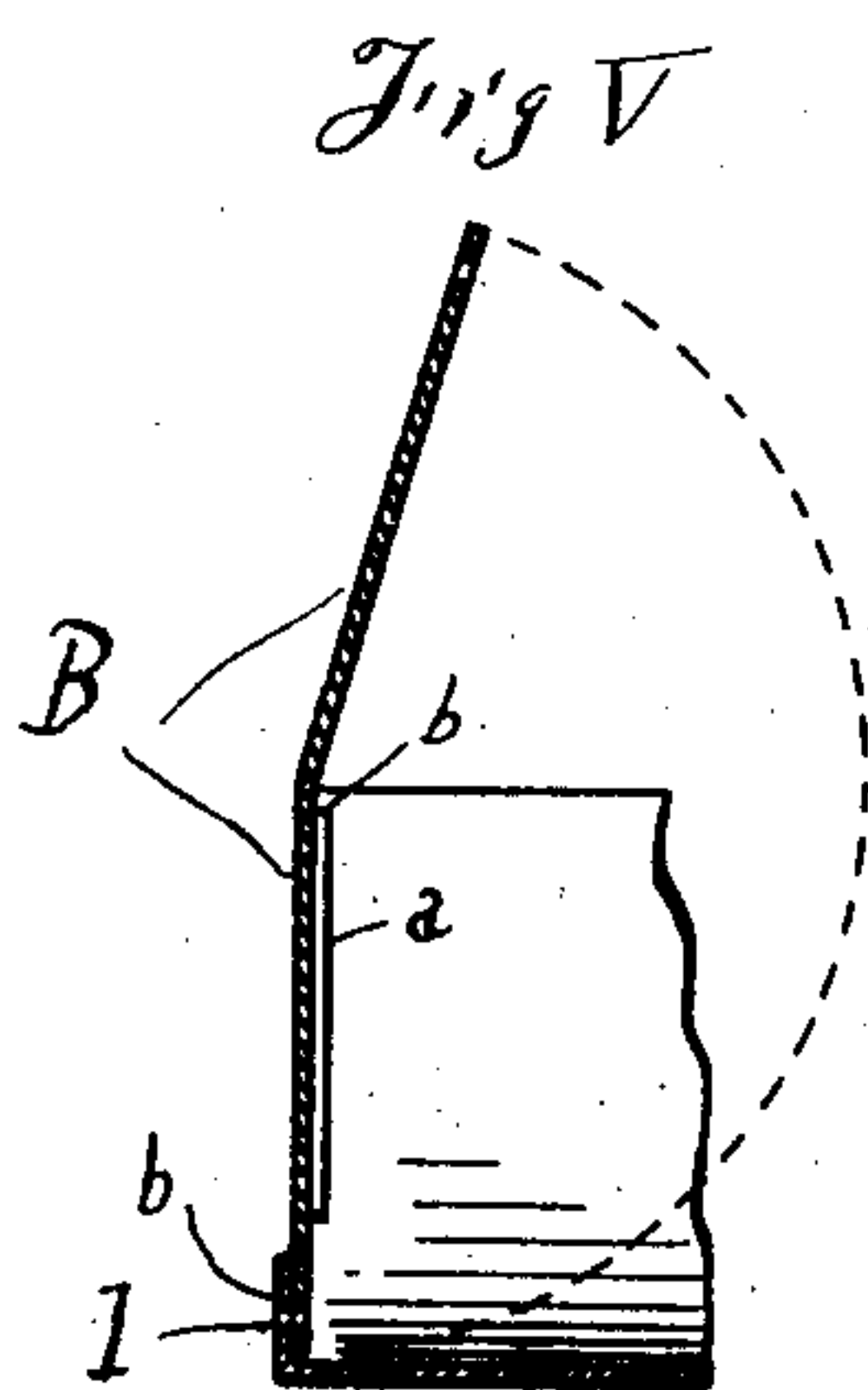
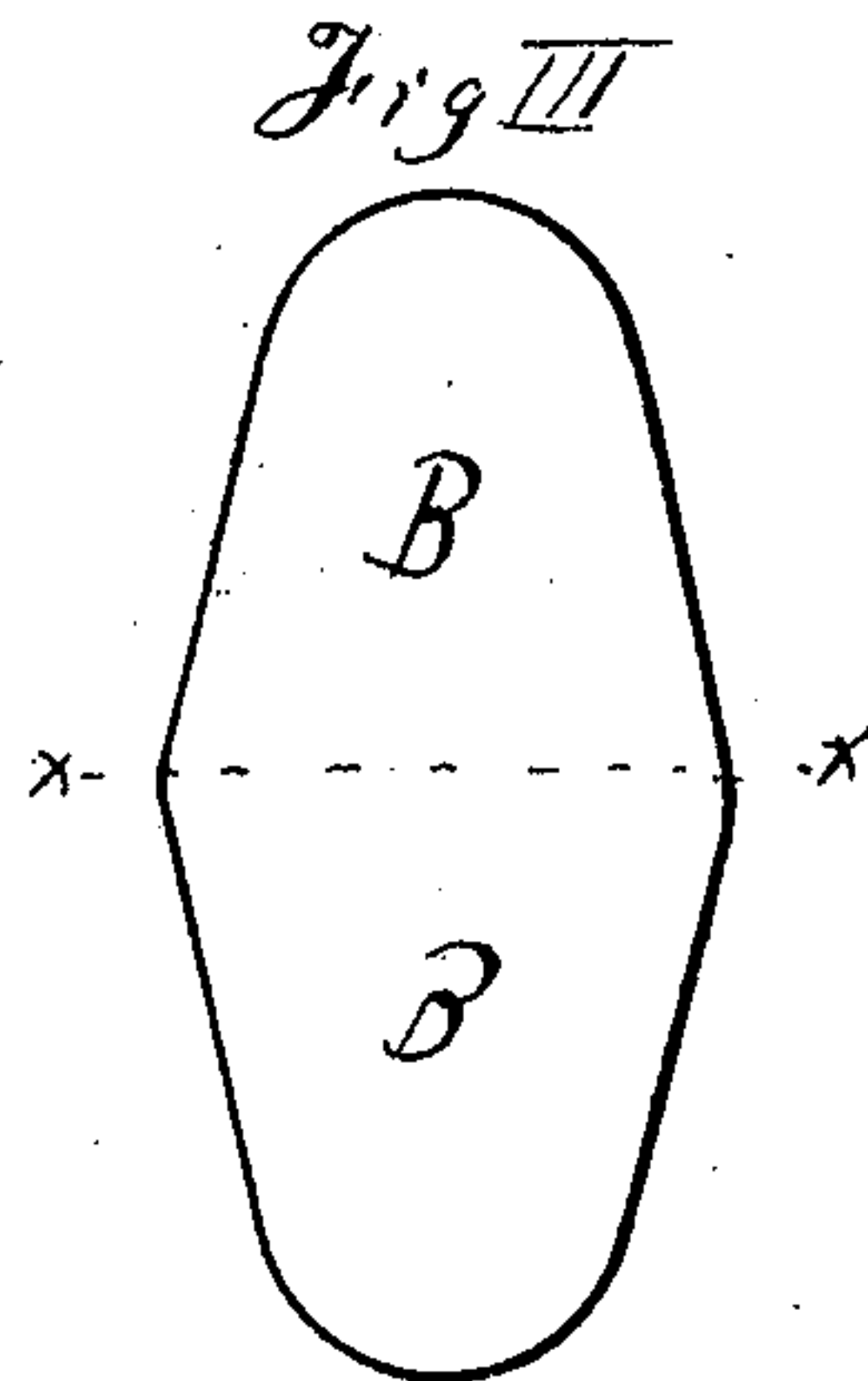
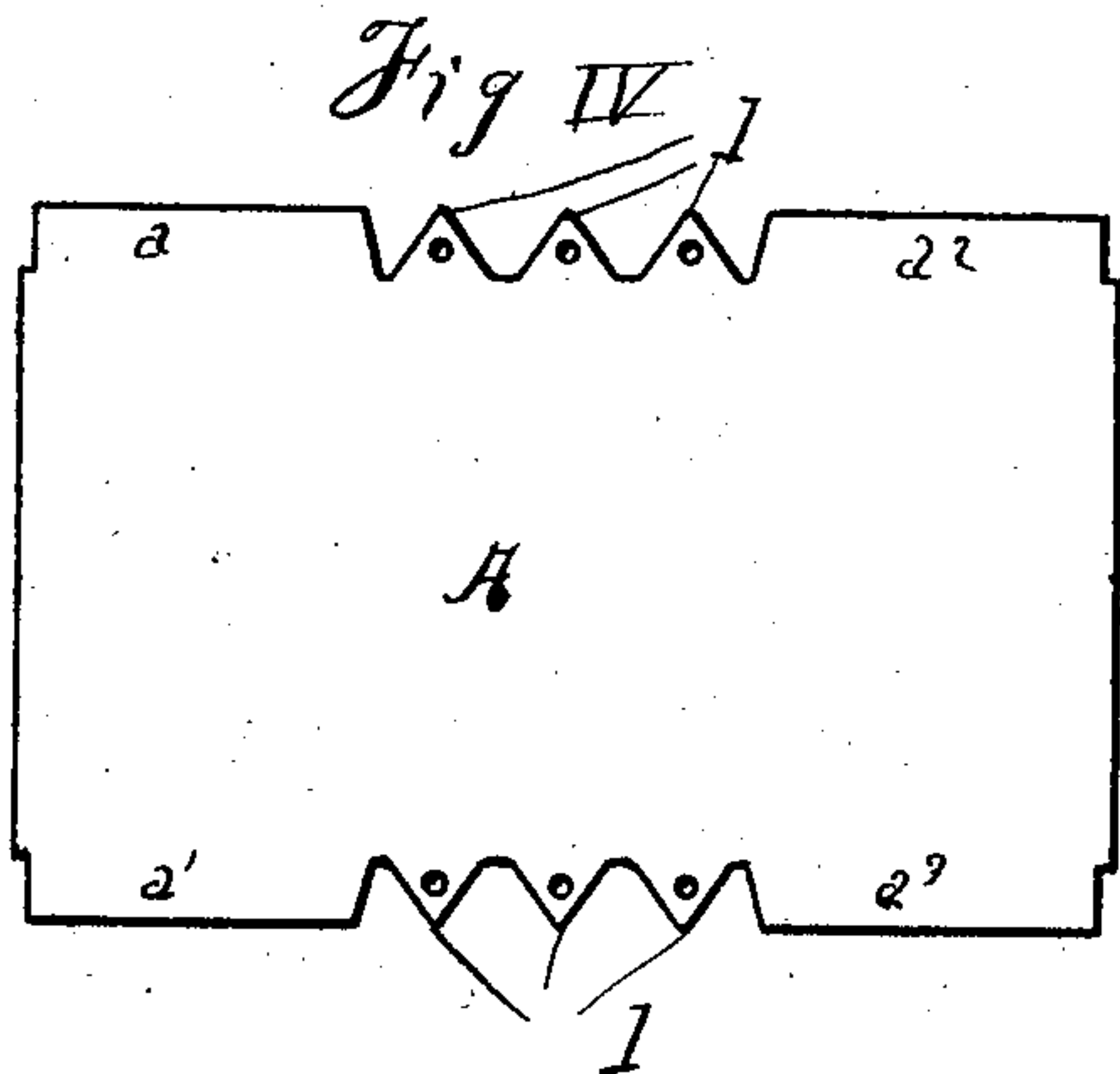
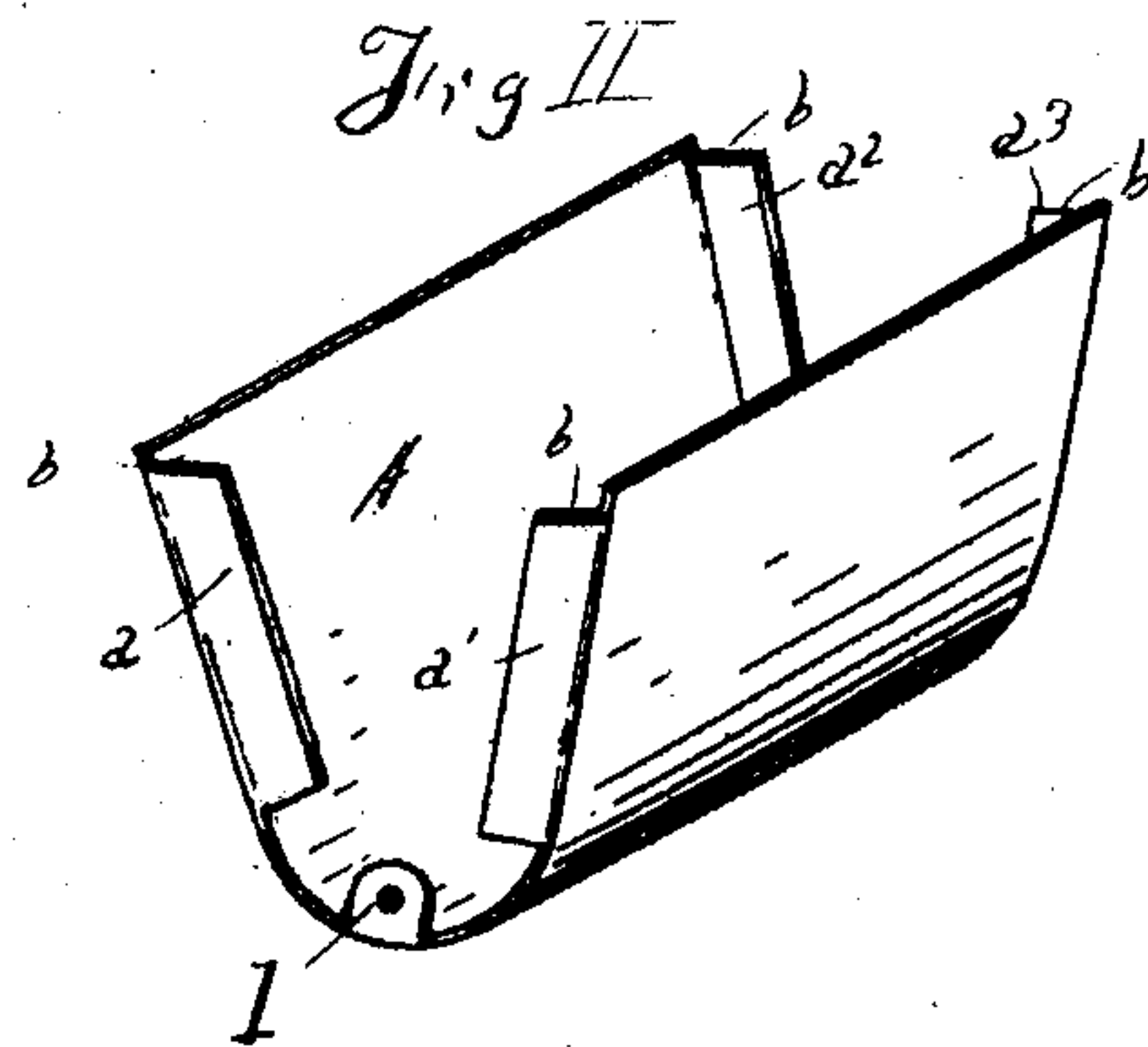
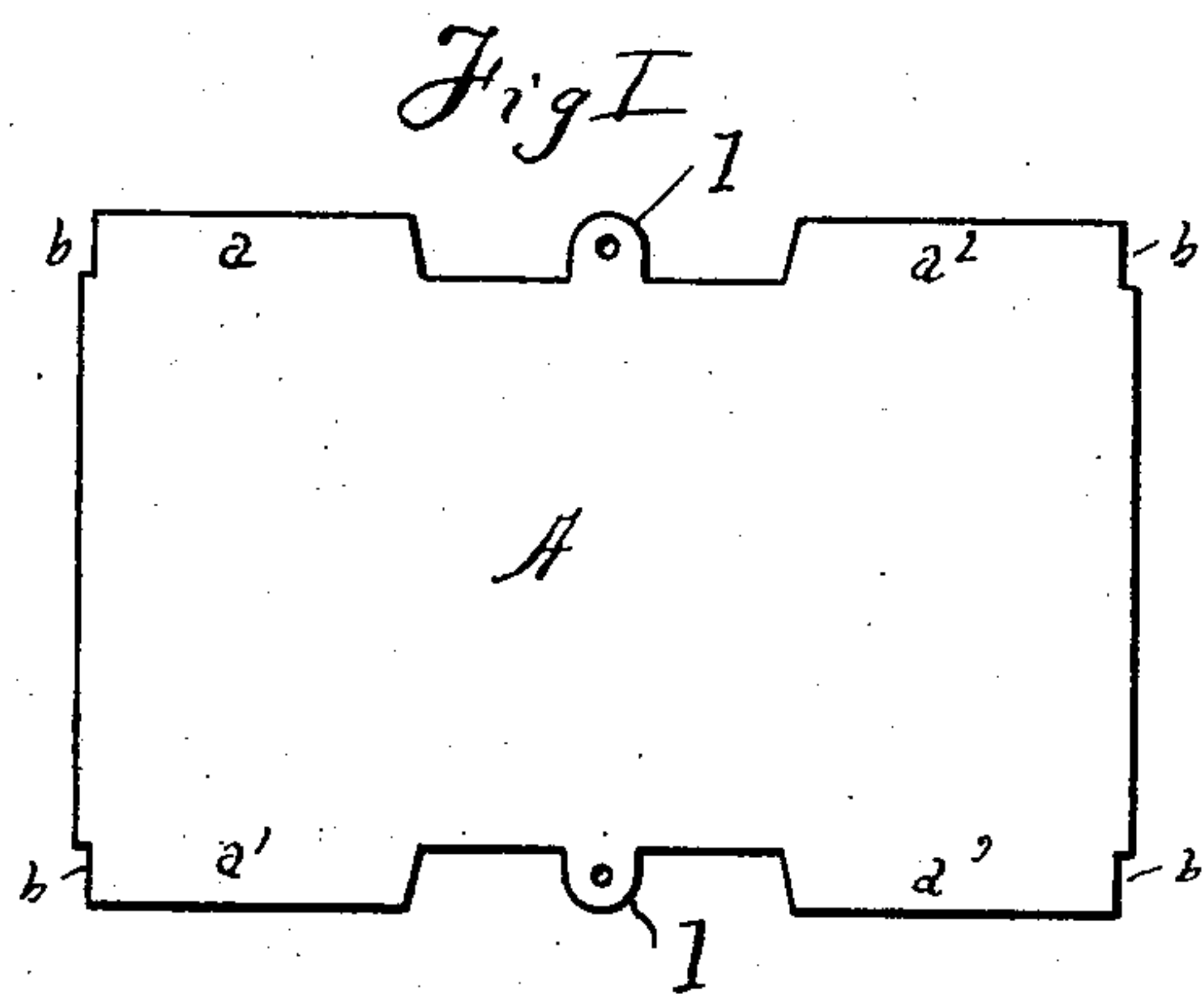
No. 764,975.

PATENTED JULY 12, 1904.

W. G. AVERY.
ELEVATOR BUCKET.

APPLICATION FILED MAR. 25, 1904.

NO MODEL.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM G. AVERY, OF PAINESVILLE, OHIO.

ELEVATOR-BUCKET.

SPECIFICATION forming part of Letters Patent No. 764,975, dated July 12, 1904.

Application filed March 25, 1904. Serial No. 199,969. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM G. AVERY, a citizen of the United States, residing at Painesville, in the county of Lake and State of Ohio, have invented certain new and useful Improvements in Elevator-Buckets; 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 pertains to make and use the same.

My invention relates to elevator-buckets, and is an improvement on the type of bucket shown, described, and claimed in a patent issued to me on February 2, 1904, and numbered 751,138.

The object of my invention is to provide a more economical way of constructing and assembling the parts and at the same time attain also the advantages of the bucket set forth in the patent just above referred to.

My invention consists in forming a bucket of three blanks secured together in relation to each other and having conformation such as will be hereinafter set forth and claimed. In the drawings, Figure I is a plan view of my preferred form of blank for the body portion of the bucket. Fig. II is a blank turned and flanged preparatory to receive the ends. Fig. III illustrates a blank for the end when the same is formed by turning the metal upon itself, this blank being intended for the end portions of the bucket. (See Fig. V.) Fig. IV illustrates a modified form of body-blank embodied within my invention. Fig. V illustrates a fragmental view illustrating the end blank shown in Fig. III as it may be secured to one end of the body of the bucket. Fig. VI illustrates a completed bucket, showing one manner of assembling the parts and securing them.

A represents a blank which is to form the body portion of the bucket. This blank A is provided with flange-pieces a , a' , a^2 , and a^3 , and I prefer to cut it away at the corners, as at b b b b , in order that the end pieces may be flush with the front and back of the bucket when the same is folded over, as suggested in Fig. V and illustrated in Fig. VI. In forming the flange-pieces a , a' , a^2 , and a^3 they may or may not be perforated for the reception of

rivets or like fastening devices for securing the ends to the same. These flanges a , a' , a^2 , and a^3 when the body portion is formed as illustrated in Fig. II extend from the upper portion of the body to a point near the bottom thereof, thus leaving the portion of the body at the lower end free to be turned upon itself in curved shape, which is the preferable contour and the desirable contour of buckets of this type; but in order that the bottom of the end pieces B may be secured at this lower portion I provide narrow upwardly-projecting lugs l l at the ends of the body portion when the blank is turned, as illustrated in Fig. II, which lugs are adapted to engage the bottom portion of the ends B, as illustrated at b' , where the end of the body is fastened to the end pieces at the lower portion, which dispenses with the flanging over of the end pieces, as illustrated in my former patent above referred to.

Instead of one of these lugs b at the end of the body portion two or more may be provided located in such juxtaposition to each other as to allow the curving above mentioned of the body portion A. In practice I find that a single lug b would be sufficient.

It is apparent that instead of folding the end piece B upon itself a blank may be formed (illustrated from line X X, Fig. III) to either end, thus forming the end piece of one thickness of metal.

The manner of forming my bucket is preferably as follows: The blanks A and B are formed as illustrated in Figs. I, III, and VI and the flanges and lugs turned as illustrated in Fig. II, these flanges being turned, preferably, previous to the forming the contour of the bucket-body. The end piece B is then placed in position one on either end and secured to or engaging the flanges a , a' , a^2 , and a^3 and at the lower end to the lug b , forming a bucket substantially as illustrated in Fig. VI, the body and end portions being secured together through the flanges and lugs by any suitable means. This forms a bucket of the proper shape or contour, and inasmuch as the gages of the metal for the ends may be lighter than the gage of the metal for the body, I obtain a cheaper bucket than a stamped or

pressed bucket, and I am enabled to supply different size and depths of buckets as they may be required.

In setting forth this invention I do not wish to be limited to the exact contour of the parts or of the manner of assembling the parts as described or illustrated, as it is apparent that they can be modified without departing from my invention.

10 What I claim is—

1. In a bucket of the type set forth, a body portion formed of an integral blank, having oppositely and inwardly projecting flanges at both ends, said flanges extending from the
15 upper portion of the body to a point near the bottom thereof and having a portion of the lower end of the body cut away in such a manner as to leave individual or separate lugs with end pieces adapted to engage and be se-
20 cured to said flanges and lugs.

2. In a bucket of the type set forth comprising a body portion provided with flanges a , a' , a^2 and a^3 , and lugs l l in combination with end pieces B, the whole being secured together or engaging so as to form a bucket. 25

3. In a bucket of the type set forth a body portion comprising oppositely-disposed and inwardly-projecting flanges at the ends of said body portion, and separate and individual lugs projecting upwardly from the bottom
30 portion of the body with end portions adapted to engage said flanges and lugs, the whole forming a bucket.

Signed in Cleveland, in the county of Cuyahoga and State of Ohio, this 21st day of March, 35
1904.

WILLIAM G. AVERY.

Witnesses:

E. B. DONNELLY,
L. C. MARBACH.