

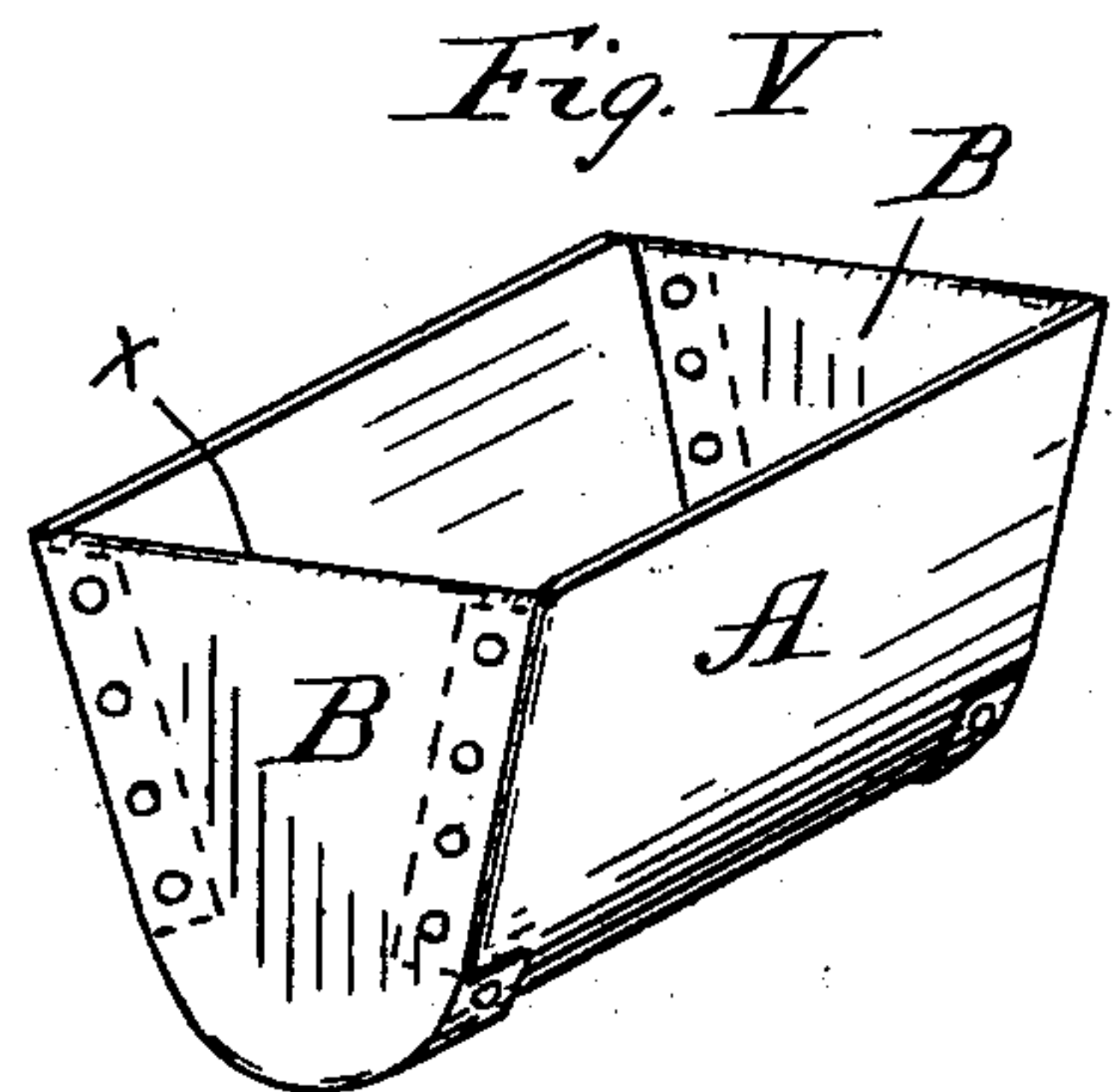
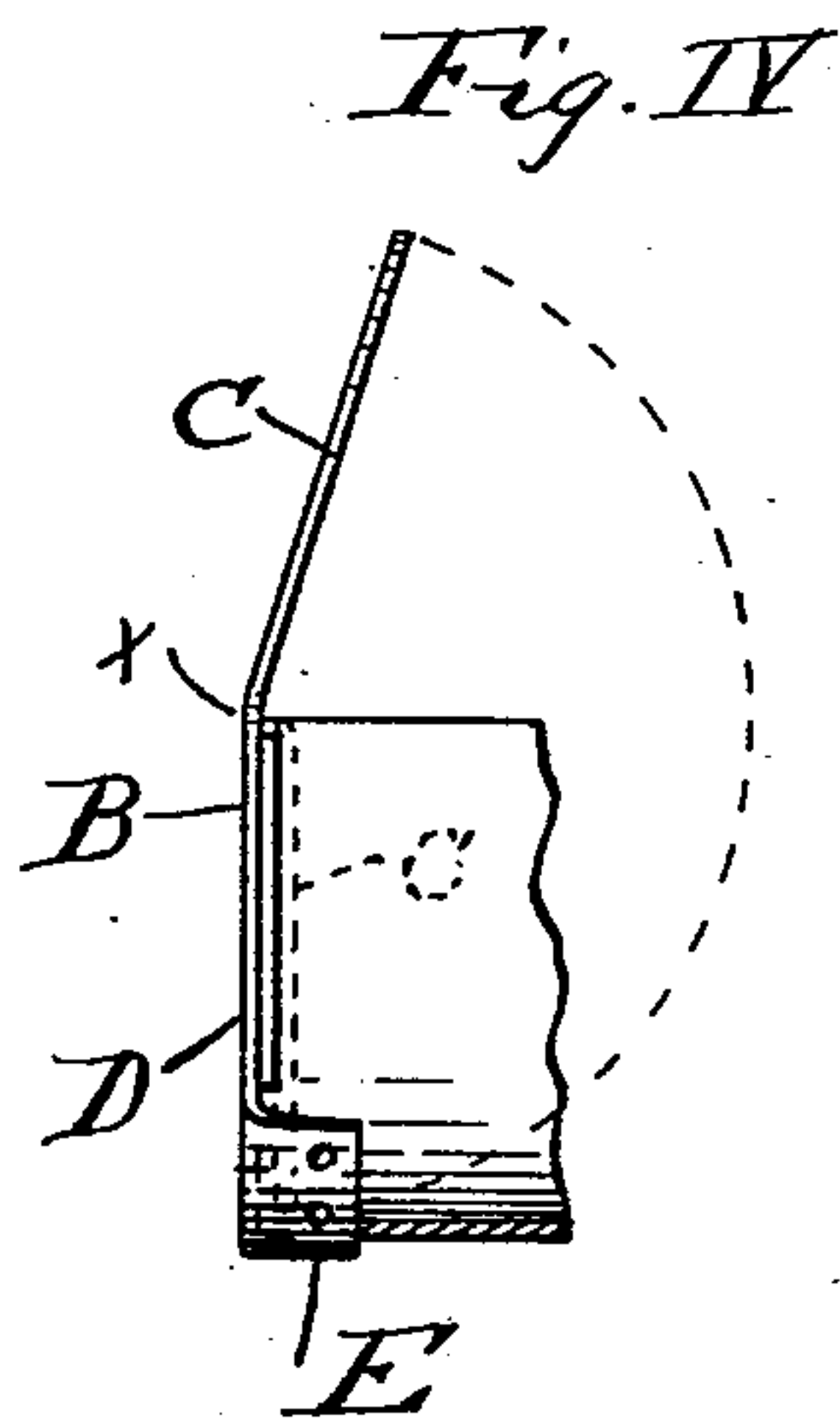
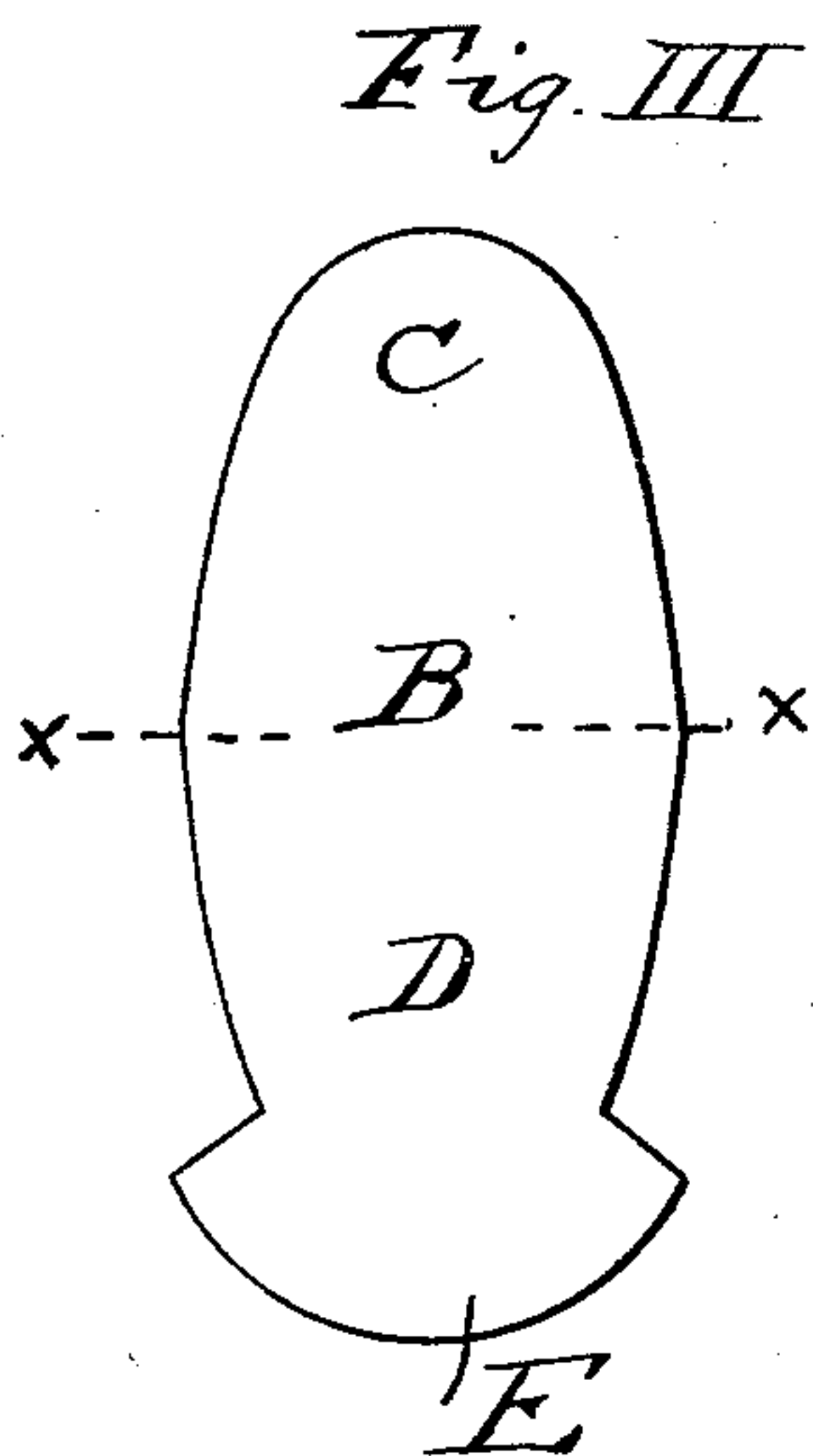
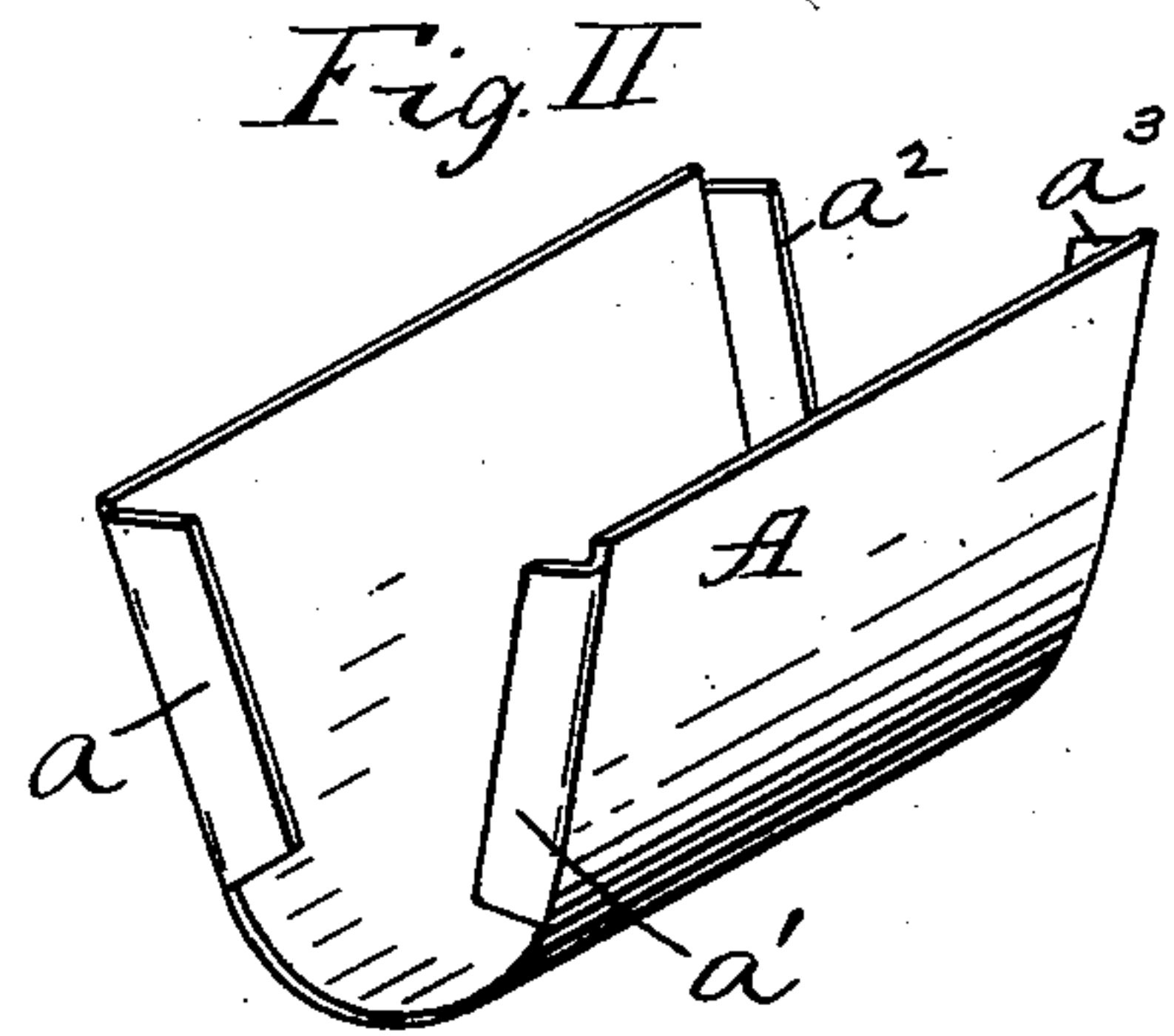
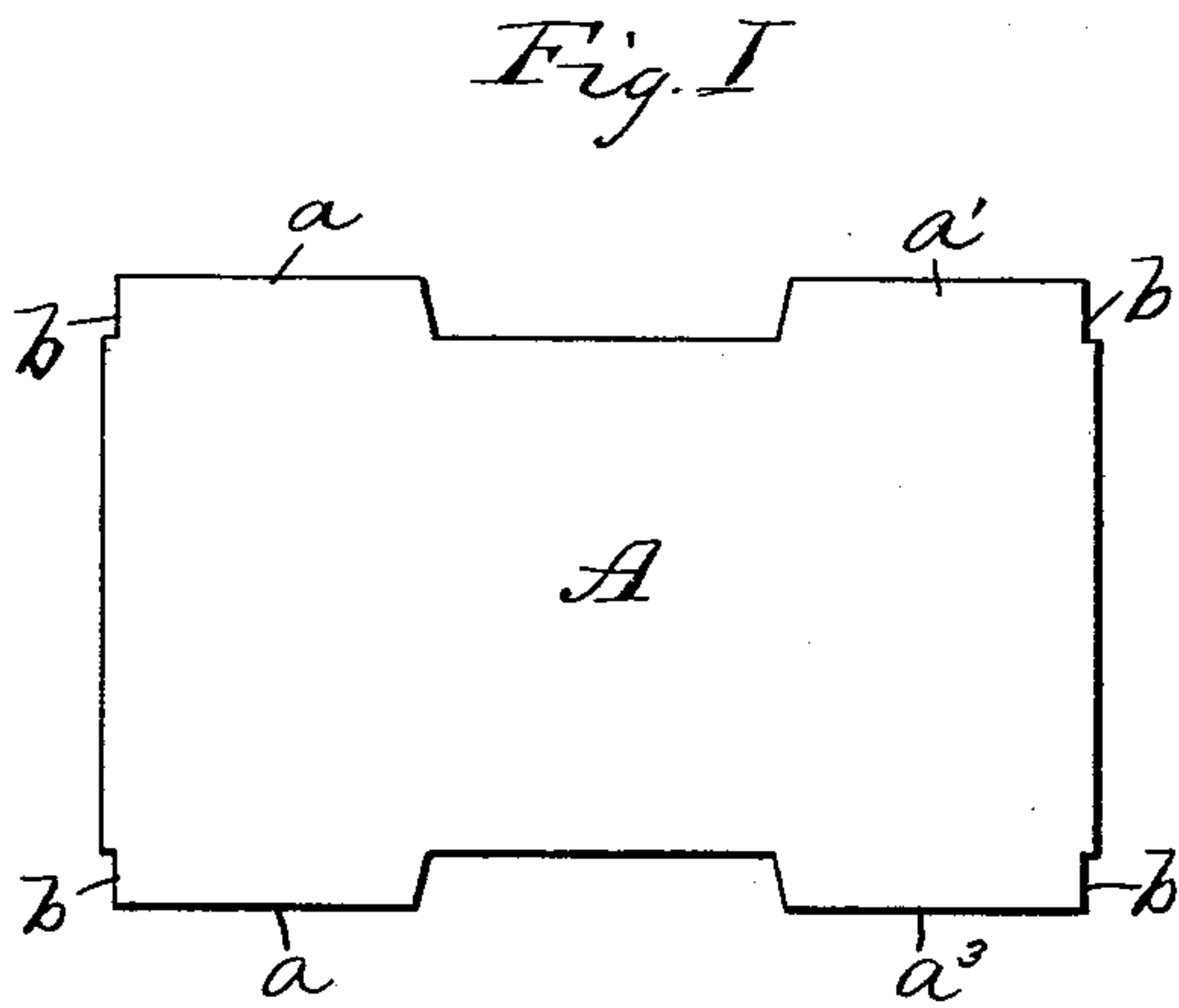
No. 751,138.

PATENTED FEB. 2, 1904.

W. G. AVERY.
ELEVATOR BUCKET.

APPLICATION FILED FEB. 9, 1903.

NO MODEL.



Witnesses:

A. L. Lord.
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Inventor.

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UNITED STATES PATENT OFFICE.

WILLIAM G. AVERY, OF PAINESVILLE, OHIO.

ELEVATOR-BUCKET.

SPECIFICATION forming part of Letters Patent No. 751,138, dated February 2, 1904.

Application filed February 9, 1903. Serial No. 142,566. (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 buckets, more especially such as are designed for excavating, elevating, loading, unloading, or transporting material.

The objects of my invention are to first obtain a bucket which is stronger and more cheaply constructed than the so-called "struck-up" or "pressed" bucket and more uniform when finished.

My invention consists in forming the bucket of three blanks, one blank forming the main body portion of the bucket and two blanks forming the ends, the whole being put together in the manner hereinafter described, and fully set forth in the claims.

In the drawings, Figure I represents in plan a blank from which the body of the bucket can be formed. Fig. II illustrates the blank illustrated in Fig. I approximately shaped. Fig. III illustrates a blank which I prefer to employ for the end pieces. Fig. IV illustrates a manner in which the blank illustrated in Fig. III may be secured in place. Fig. V illustrates a finished bucket.

In the drawings and in the following description I have illustrated and will describe my preferred method of constructing a bucket.

A represents a blank which forms the body of the bucket. This blank A is provided with flange-pieces a , a' , a^2 , and a^3 and is preferably cut away at the corners, forming shoulders, as at $b b b b$. The blank A is suitably shaped, as illustrated in Fig. II, and the flanges a , a' , a^2 , and a^3 turned inward. These flanges a , a' , a^2 , and a^3 are preferably perforated for the reception of suitable rivets before being bent into shape; but, if desired, this perforation may be a subsequent operation.

The side pieces B are formed of a blank such as is illustrated in Fig. III. The upper portion C being shaped in such contour as to fit tightly or snugly within the body inside of the flanges $a a'$ or $a^2 a^3$, and the lower portion B is made to conform to the outer contour of the body A of the bucket at its side. Also at the extreme lower end of the blank B, I form a portion E, which is bent at right angles to the blank in such a manner as to embrace the bottom portion of the body A.

When the side pieces B are bent to the shape illustrated by the solid and dotted lines, they will inclose the flanges $a a'$ or $a^2 a^3$ between them, and the parts are then riveted or secured in other suitable manner. The flange E is also riveted or secured to the bottom of the bucket, as illustrated in Figs. IV and V, and thus the bucket is complete, uniform, and strong and can be made more economical on account of the fact that the body portion A, which receives the main portion of the wear, can be made of heavier gage metal than the side portions, and as the rivets on the interior of the bucket (when rivets are used) are struck flush to the metal the interior of the bucket is smooth and prevents or lessens the liability of packing of the material.

Instead of making the blank B as illustrated in Figs. III and IV, so that a double thickness of wall is attained, I can form it of such shape as is illustrated from the lines $x x$ downward, including the portions D and E; but I prefer to construct it as illustrated and described.

What I claim is—

1. A bucket of the type set forth comprising a body portion, having inwardly-projecting flanges, at its ends, and oppositely-disposed side pieces adapted to engage said flanges, said side pieces being provided with a flange adapted to engage the bottom portion of the body.

2. In a bucket of the type set forth, a body portion, formed of an integral blank having opposite inwardly-projecting flanges at both ends said flanges extending from the upper portion of the body to a point near the bottom thereof leaving a portion of the body without

said flanges, said portion being located at the
bottom of the bucket; and side pieces bent
upon themselves so as to include said flanges
and projecting so as to include the bottom of
5 the body, substantially as and for the purpose
set forth.

Signed at Cleveland, in the county of Cuya-

hoga and State of Ohio, this 30th day of Janu-
ary, 1903.

WILLIAM G. AVERY.

Witnesses:

E. B. DONNELLY,
A. L. LORD.