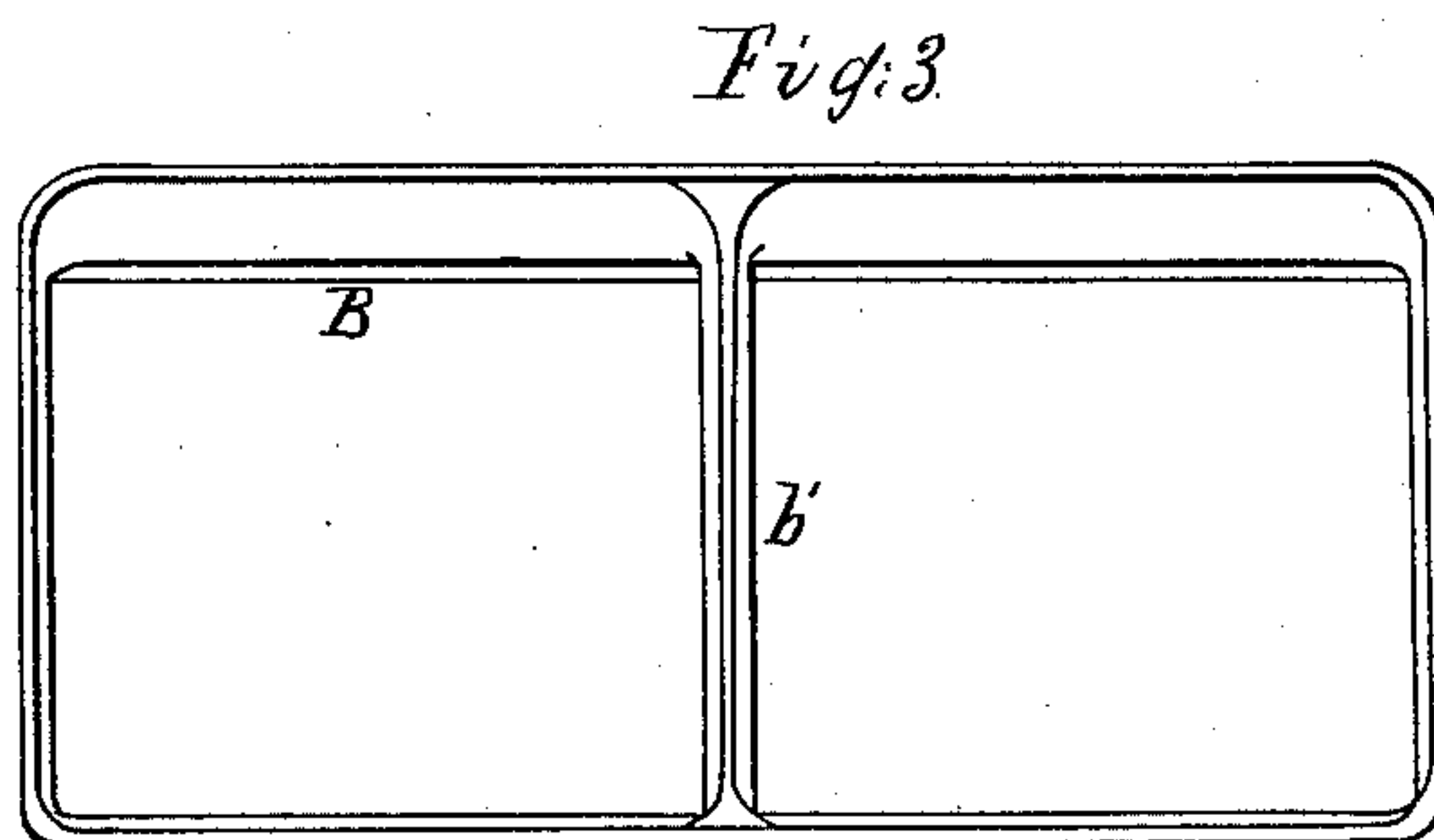
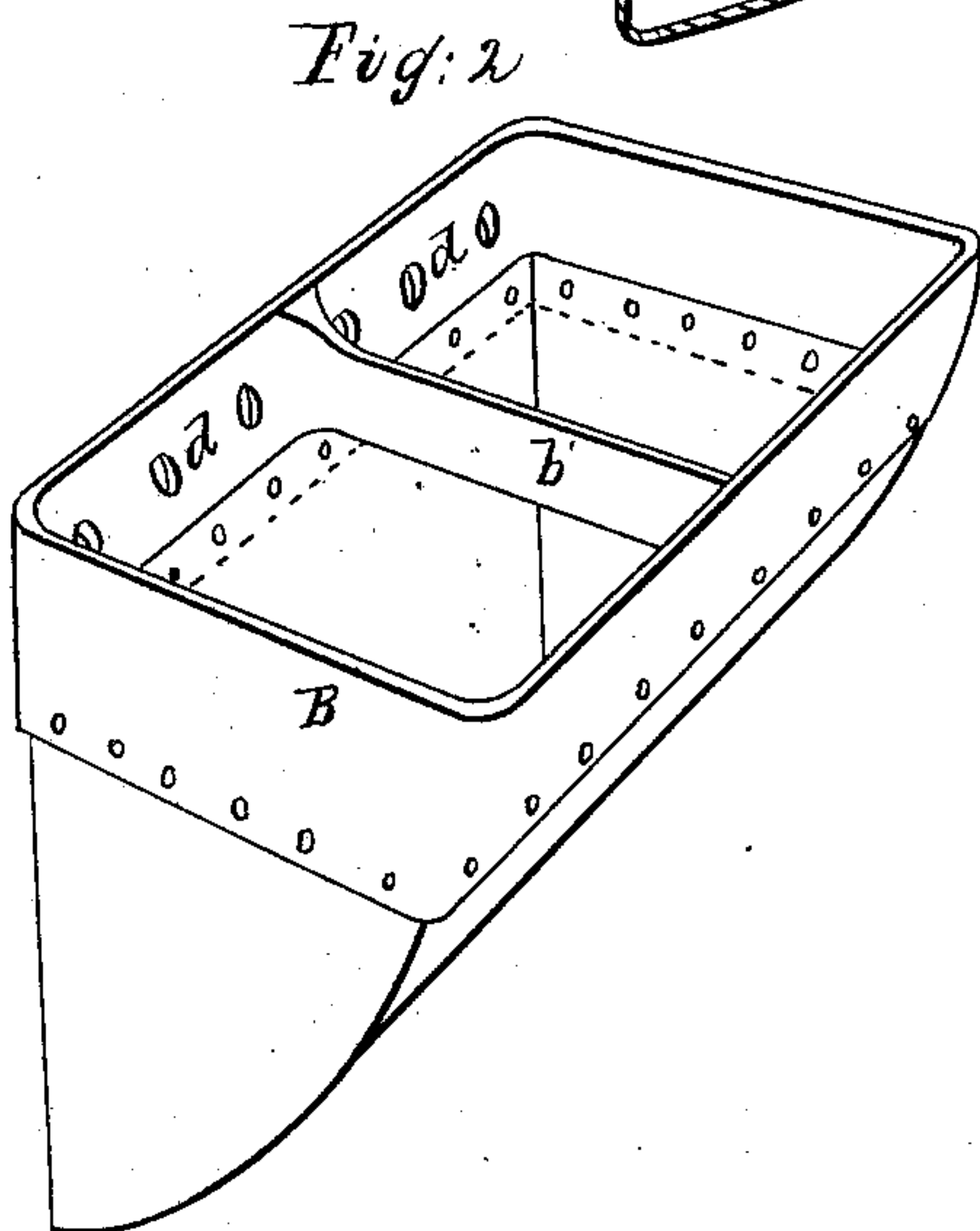
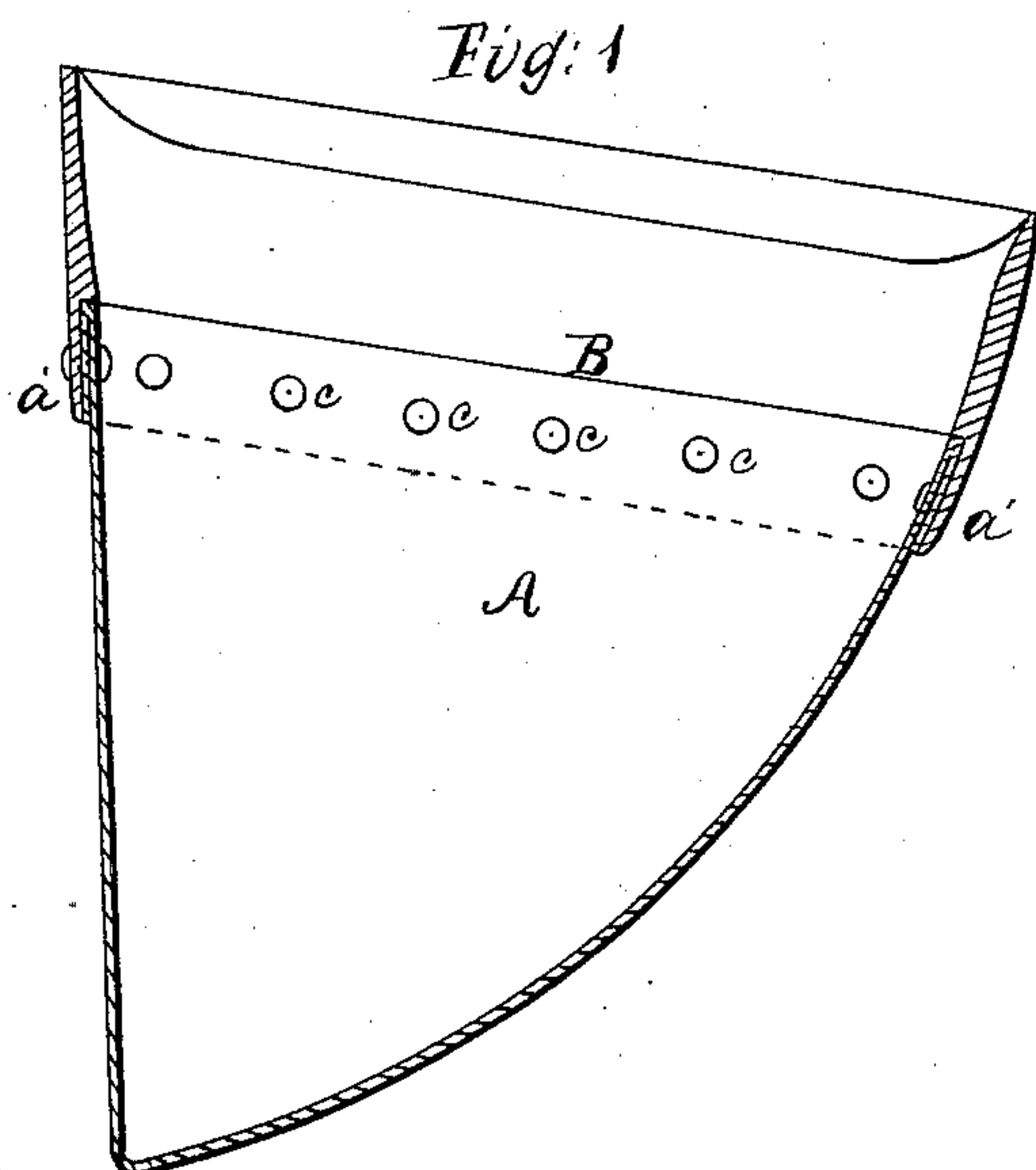


*Dorer & Storms,*  
*Hoisting Bucket.*

*N<sup>o</sup> 56,386.*

*Patented July 17, 1866.*



*Witnesses*  
*B H Muehle*  
*E B Lorbach*

*Inventors*  
*Henry Dorer*  
*James Storms*

# UNITED STATES PATENT OFFICE.

HENRY DORER AND JAMES STORMS, OF BUFFALO, NEW YORK.

## IMPROVED ELEVATOR-BUCKET.

Specification forming part of Letters Patent No. 56,386, dated July 17, 1866.

*To all whom it may concern:*

Be it known that we, HENRY DORER and JAMES STORMS, of the city of Buffalo, county of Erie, and State of New York, have invented a new and Improved Elevator-Bucket; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure I is a transverse section. Fig. II is a perspective; and Fig. III is a top view of the cast malleable iron rim forming the entering edge of the bucket.

The nature of this invention consists in making an elevator-bucket partly of tin or sheet-iron and partly of cast malleable iron, and connecting these two parts together in such manner that the cast malleable part shall form a strengthening-rim and entering edge of the bucket, the bucket as a whole being constructed as herein described.

Letters of like name and kind refer to like parts in each of the figures.

A represents more particularly the lower or receiving and holding part of the bucket, and is made of tin or sheet-iron in a common and approved manner and form. The upper edge of the sheet metal is lapped over and made double, as shown at *a'*, in order to make it thicker at that part, to receive and hold the cast malleable part B. This rim equals in width about one-third the whole depth of the bucket, and is so formed that the sheet-metal part enters within it sufficiently, so that the two parts may be riveted, bolted, or otherwise fastened together, as shown at *c*, and the

rim is strengthened by a brace-bar, *b'*, integral therewith. This bucket is fastened to the bucket-belt by means of rivets passing through it and the belt, as shown at *d*.

In the practical use of elevator-buckets it is ascertained that the entering edge is subjected to the greatest wear and strain, and hence various methods have been resorted to to render more serviceable this part of the bucket.

The improvement herein described is considered to be cheaper of construction and more durable in use than any other bucket heretofore made.

The rim B being cast in molds, it can be made very smooth and uniform in size and thickness, and strength may be given it at the corners, where it is subjected to the greatest wear, and others parts of it may be made lighter, so that the metal may be exactly proportioned, giving strength and thickness where required and making other parts thin and light where strength and thickness are not required; and hence a cheaper and more durable bucket may be made by following this improvement than has ever heretofore been used.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

An elevator-bucket constructed as herein described.

HENRY DORER.  
JAMES STORMS.

Witnesses:

E. B. FORBUSH,  
B. H. MUEHLE.