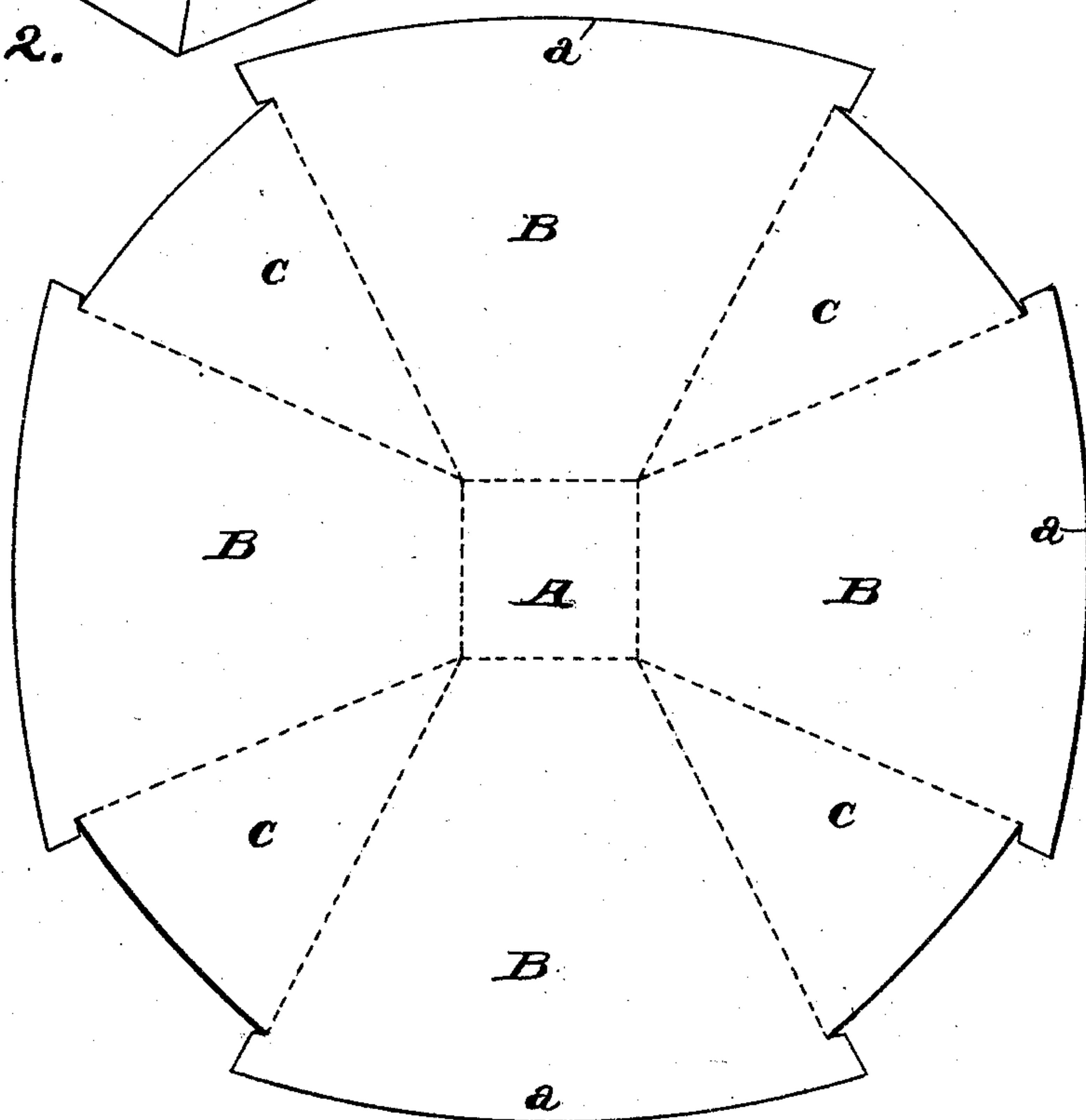
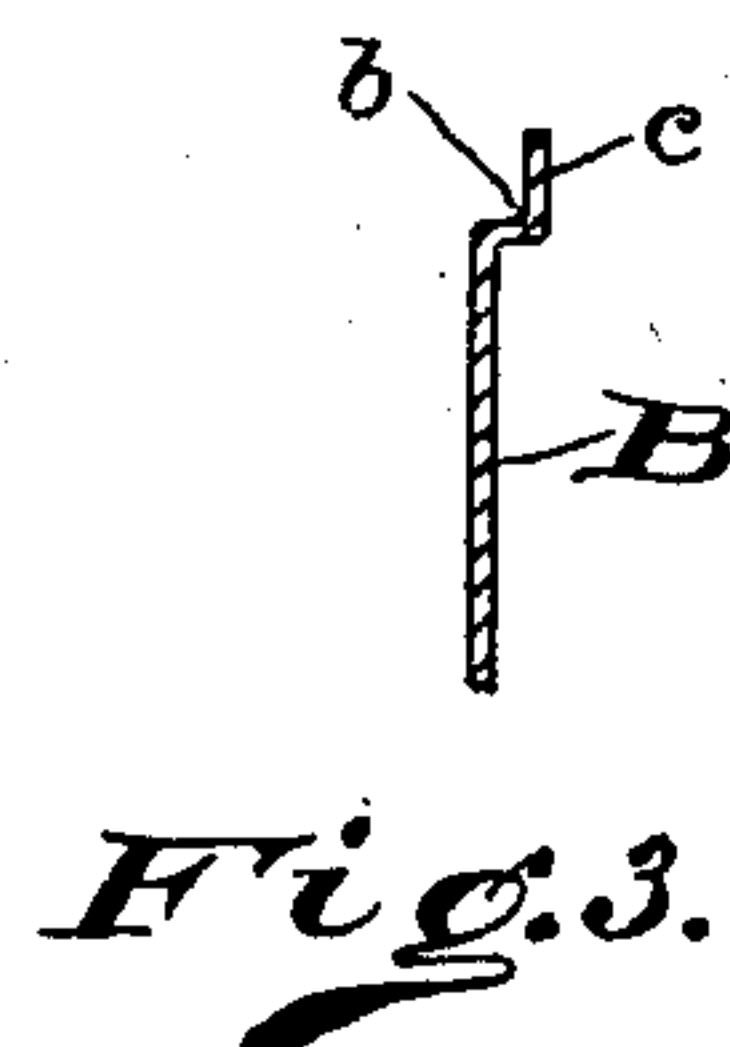
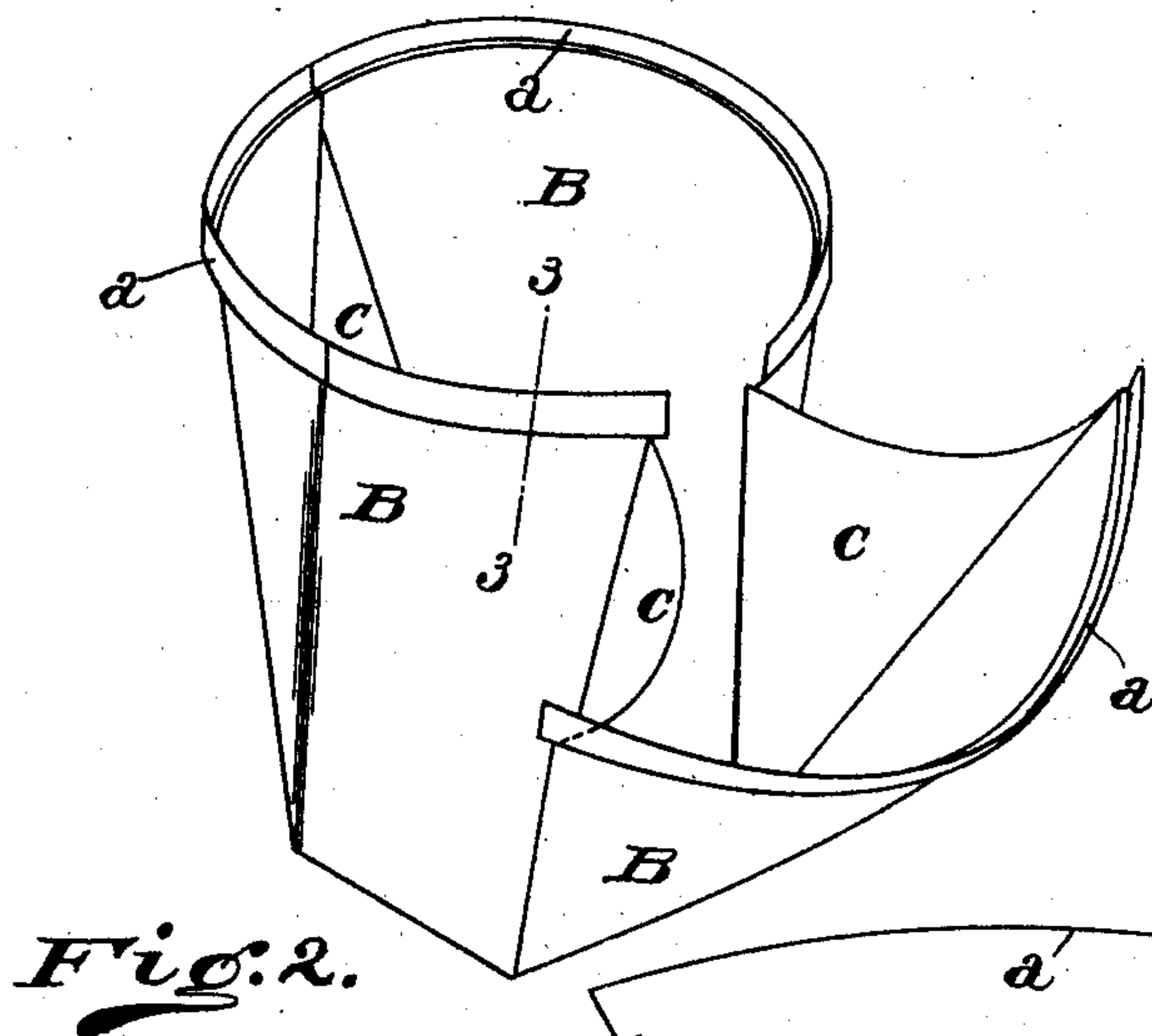


906,779.

Patented Dec. 15, 1908.

2 SHEETS—SHEET 1.



Witnesses
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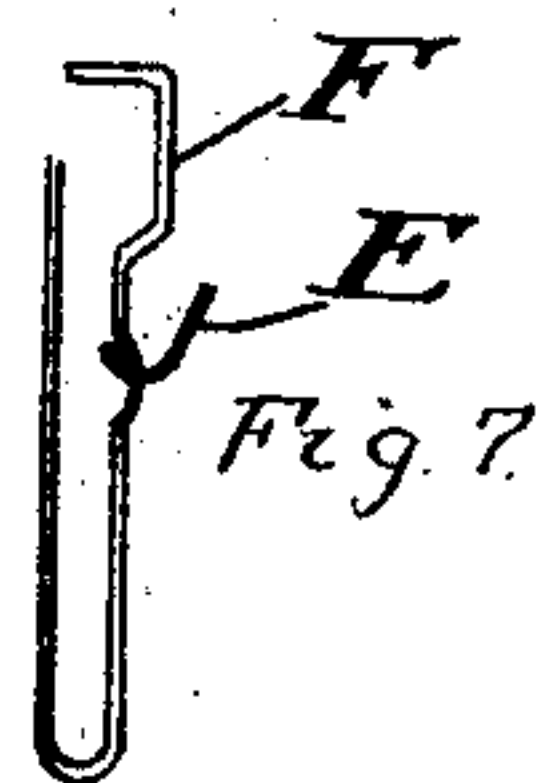
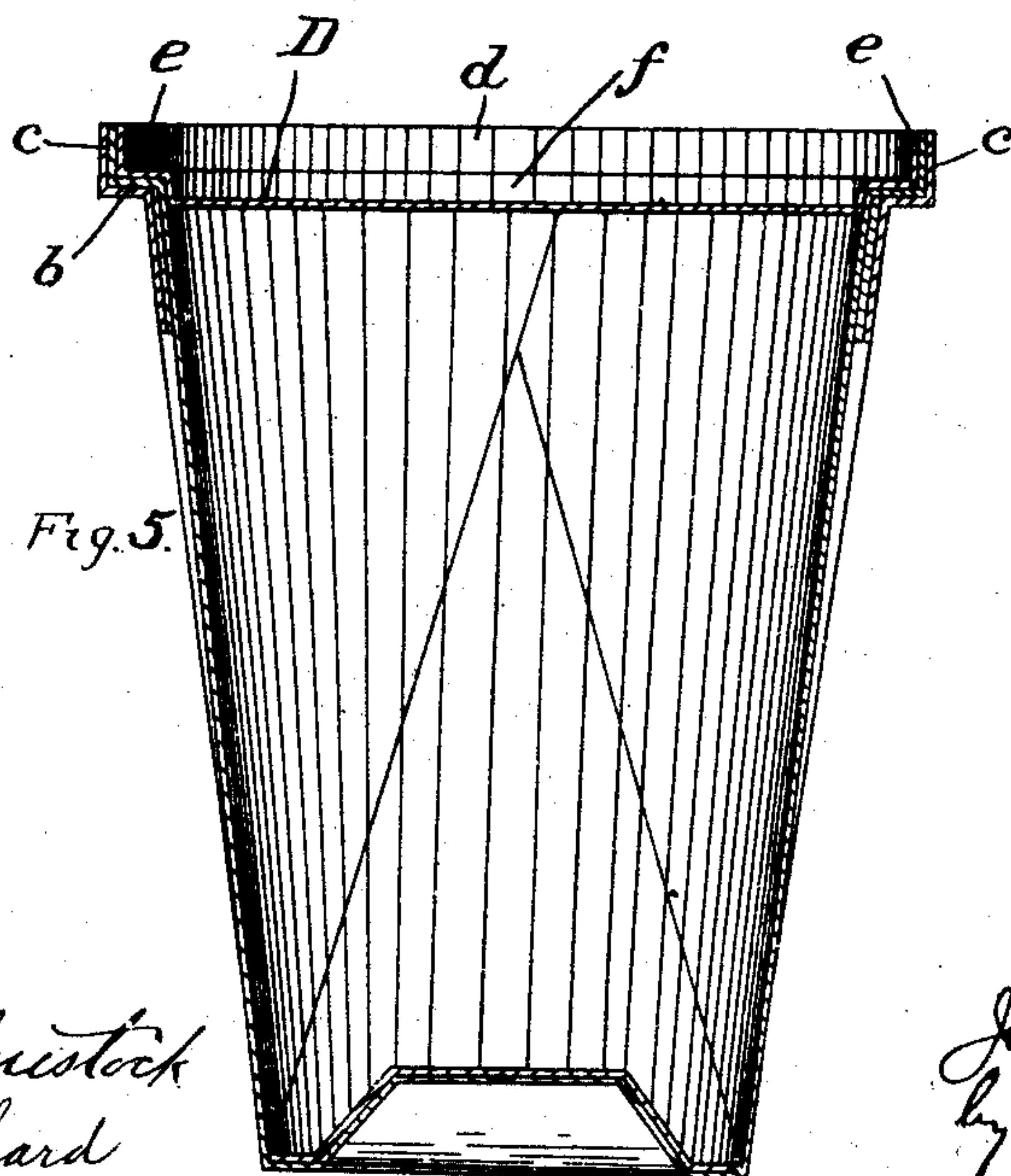
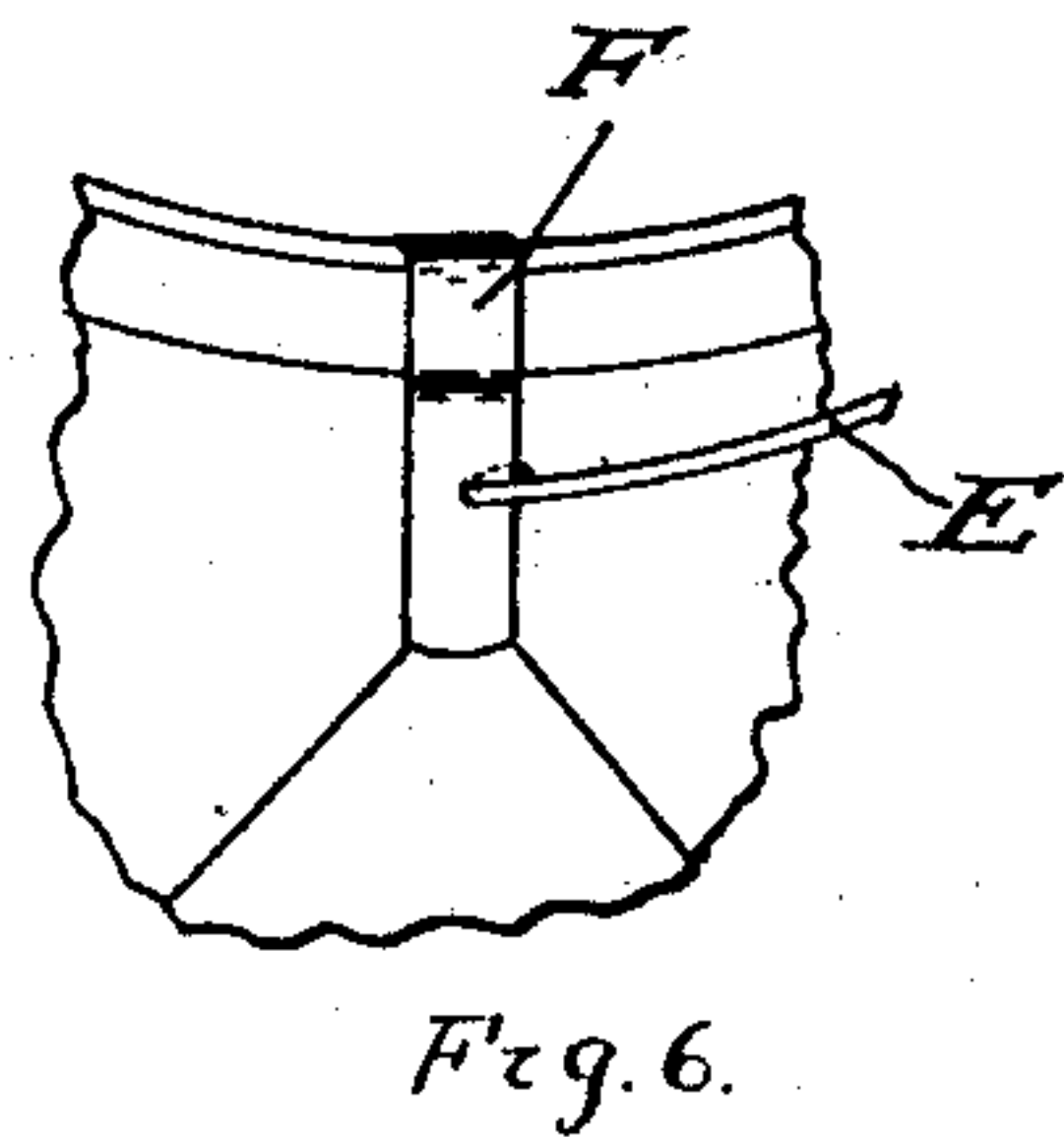
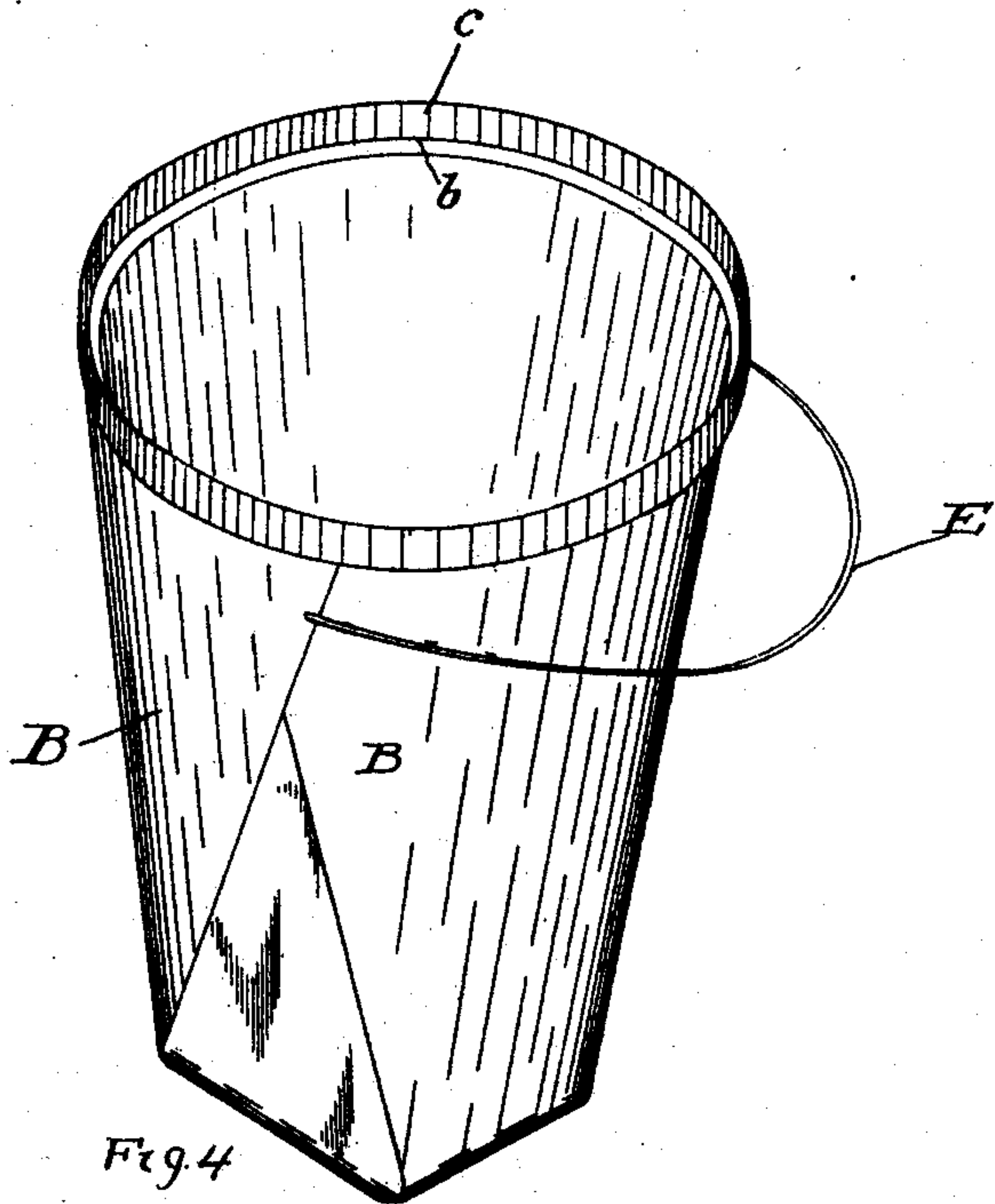
Fig. 1.

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2 SHEETS—SHEET 2.



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PAPER PAIL.

No. 906,779.

Specification of Letters Patent.

Patented Dec. 15, 1908.

Application filed April 28, 1905. Serial No. 257,914.

To all whom it may concern:

Be it known that I, JOHN N. DAVIS, a citizen of the United States, residing in Dayton, county of Montgomery, and State of Ohio, have invented certain new and useful Improvements in Paper Pails, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to improvements in paper pails for grocers' use, in which the pails are furnished by the manufacturer in complete condition ready for use, and which are stored for shipment by being nested, and in which a separate detachable cover is provided to inclose the contents of the package.

In the manufacturing of paper pails for oysters, berries and the like, made out of a single blank of paper of sufficient lightness to score and to fold properly, it is a difficult matter to furnish a rim or top for the receptacle of sufficient stiffness and rigidity to maintain its shape without reinforcing strips and the like.

It is the object of my invention to accomplish this desired stiffness of the rim by the construction to be hereinafter particularly pointed out and claimed in which such paper pails may be manufactured out of a single blank of paper of the requisite thinness without the necessity of any reinforcing strip or strips, and in which an annular seat for the cover and a neck or wall extending upward from the outer circumference of the seat is provided, to give stiffness and rigidity to the pail and to furnish a shoulder for the proper seating of the cover.

In the drawings Figure 1 is a plan view of the blank, from which the vessel is constructed. Fig. 2 is a perspective view illustrating the manner of bringing the folds together to form the vessel. Fig. 3 is a detail section of a portion of the outer edge of the blank with the shoulder formed thereon. Fig. 4 is a perspective view of the vessel complete. Fig. 5 is a central vertical section of the pail with the cover in place. Figs. 6 and 7 illustrate a front and side view of the bail fastener.

The blank of paper of suitable weight is cut and scored, as indicated in Fig. 1, A being the bottom, B, B the four side walls, and C, C the folds between the side walls. The outer edge of the side walls *a, a* are cut segmentally and extend a short distance beyond the outer edges of the folds, so that when the

four side walls are brought together at the top to form the cylindrical upper edge of the vessel these extensions, *a*, will extend above the folds C, C. In order to form a suitable shoulder, or seat, for the cover, and a neck portion to give strength and rigidity to the rim, I take the paper blank before it is folded, and with a suitable male and female die, I form a shoulder *b* and outwardly extending flange *c* in the extension *a* of the four side walls of the vessel as shown in Fig. 3. The extensions *a* of two of the opposite walls B, B, which are to form the two outer walls, are then furnished, while still in the blank, with a coating of glue, which can be allowed to dry if desired, and the blank is then folded in the manner shown in Fig. 2, the shoulders *b* and neck flanges *c* coming together at the top. The folded blank is then placed in a heated mold constructed to support the initial shoulder *b*, and a plunger formed with a shoulder to fit down on the shoulder *b* within the neck *c*, under suitable pressure, gives permanent shape to the shoulder and neck of the pail, at the same time heating the glue so that the neck and shoulder portion of the pail are permanently secured together.

A cover D is then provided, formed with a matching wall *d*, shoulder portion *e*, and depressed portion *f*, to fit within the mouth of the pail, so that the shoulder *e* of the cover will rest on the shoulder *b* of the pail, the depressed portion *f* of the cover fit within the side walls, and the neck *e* of the cover fit within the vertical flange *c* forming the neck of the pail. The cover is formed in a suitable die out of a disk of paper material, and is made of a size to fit snugly within the neck and open mouth of the pail, so that there is sufficient elasticity in the side walls of the pail to hold the cover in place.

For attaching the bail E, I provide a tin strip F on each side with an opening in it to receive the end of the bail. This tin strip is clamped over the neck *c* of the pail, and under the overlapping folds of the outer walls, as shown in Figs. 6 and 7.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A paper pail constructed from a single blank of suitable paper material, said blank being formed with a shoulder and a flange at its outer edges, the shoulders and flanges of

the blank being brought together to form the shouldered rim and neck for the pail.

2. A paper pail constructed from a single blank of suitable paper material, the blank
5 being formed with a shoulder and a flange at its outer edges, then folded into shape, the inner and outer folds meeting at the top, with the shoulders and flanges of the blank coinciding to form an annular seat for the lid, and
10 a circumferential neck projecting vertically from the outer circumference of the shoulder.

3. A paper pail constructed from a single blank of paper material, said blank being cut and scored to form the four side walls of
15 the pail with intermediate folds between the walls, with the wall portion thereof extending beyond the folds, and a shoulder and flange formed on the wall extensions with the inner and outer walls meeting at the top to form a
20 double thickness, the said shoulders and flanges of the wall portion of the blank form-

ing an interior annular shoulder for the support of the lid, and a vertical neck portion projecting from the outer circumference of the shoulder.

4. A paper pail constructed from a single blank of suitable paper material, the blank
25 being formed with a shoulder and a flange at its outer edges, then folded into shape, the inner and outer folds meeting at the top, with
30 the shoulders and flanges of the blank coinciding to form an annular seat for the lid, and a circumferential neck projecting vertically from the outer circumference of the shoulder, and a cover having double circumferential
35 shoulders to match with the interior of the mouth of the vessel.

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Witnesses:

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