

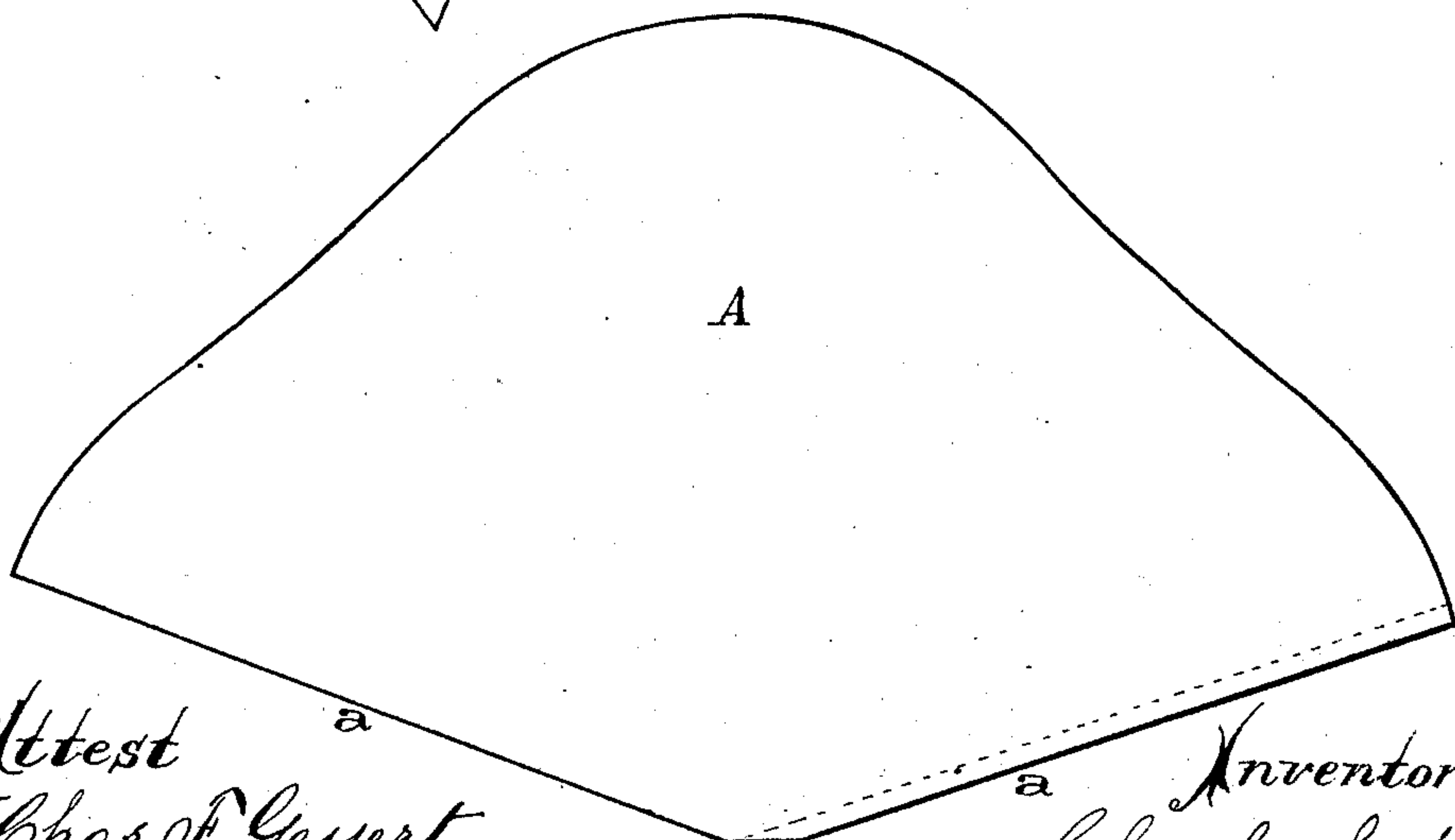
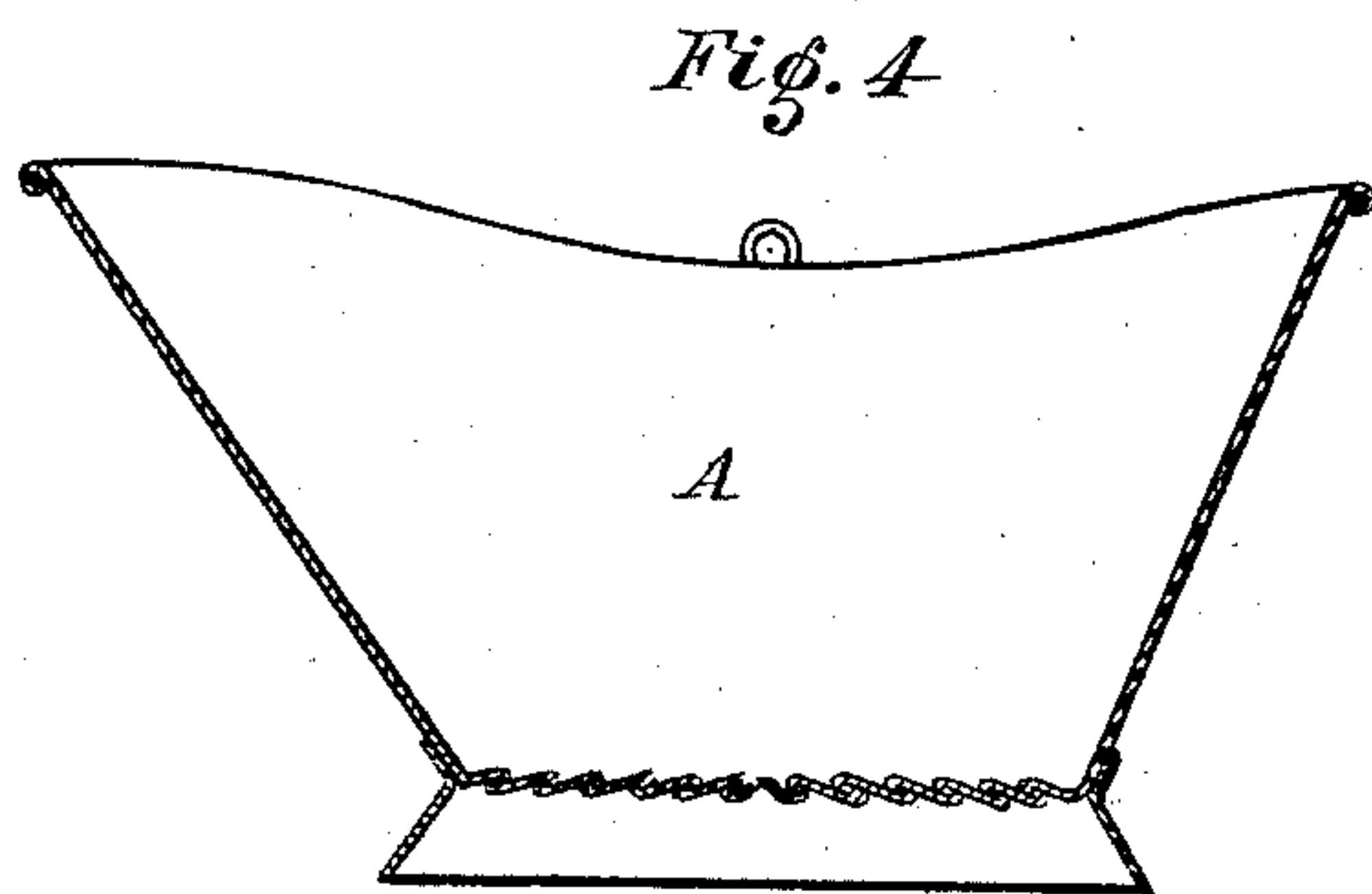
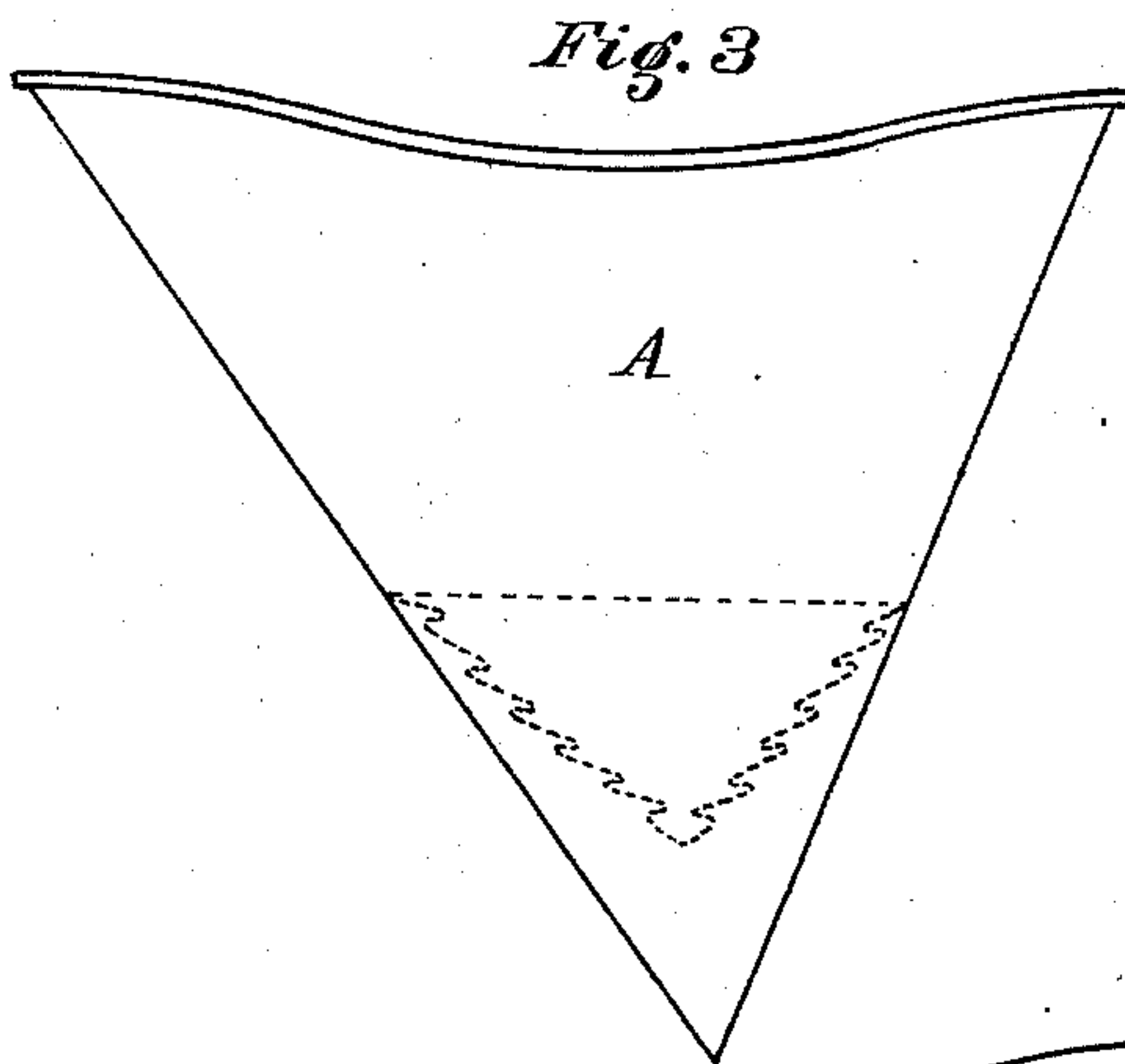
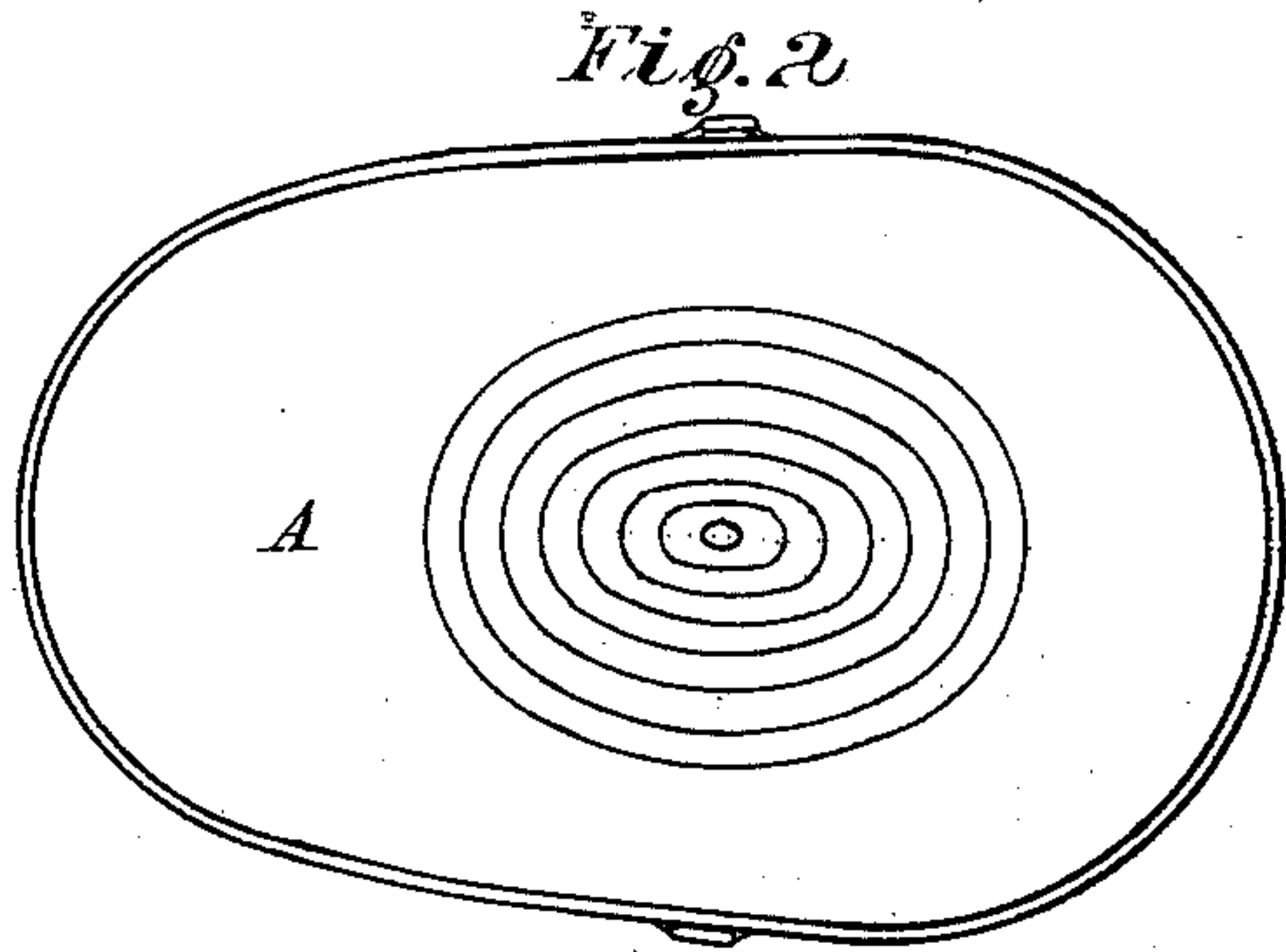
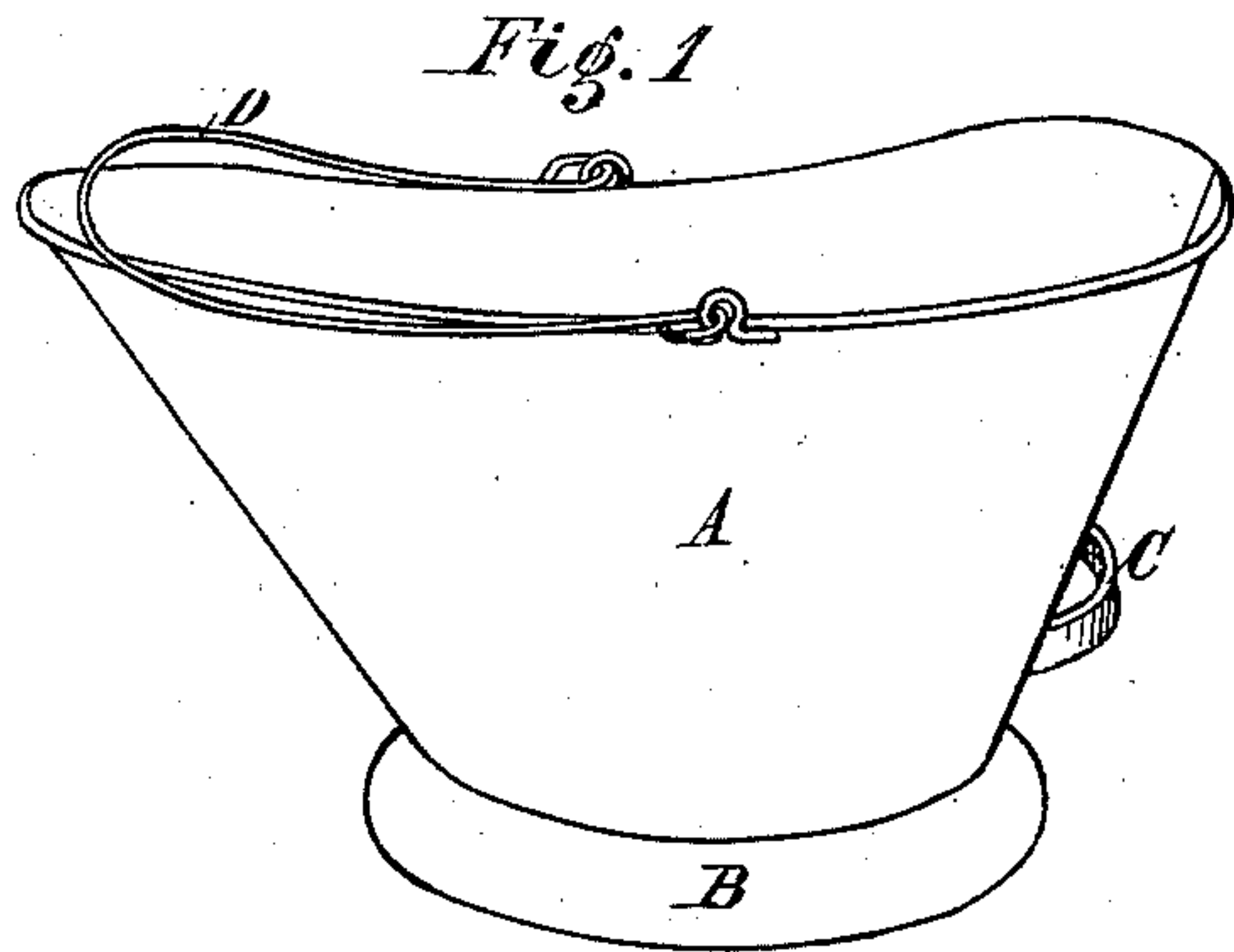
(No Model.)

C. HOFF.

COAL HOD.

No. 279,871.

Patented June 19, 1883.



Attest
Chas. F. Gessert
Jacob J. Gessert

Fig. 5

Inventor
Charles Hoff
By Geo. J. Conway
Atty

UNITED STATES PATENT OFFICE.

CHARLES HOFF, OF CINCINNATI, OHIO, ASSIGNOR OF ONE-HALF TO PETER
RENNER, OF SAME PLACE.

COAL-HOD.

SPECIFICATION forming part of Letters Patent No. 279,871, dated June 19, 1883.

Application filed March 26, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES HOFF, a citizen of the United States, residing at Cincinnati, county of Hamilton, State of Ohio, have
5 invented certain new and useful Improvements in Coal-Hods, of which the following is a specification.

My invention relates to coal-hods and similar sheet-metal vessels. Its object is to produce
10 a stronger and better article than those in common use at a less cost of labor and material.

With this object in view my invention consists in forming the bucket from a blank so shaped as to be bent into a cone or funnel
15 shaped body, then folding the cone end of said body in crimps to form the bottom, all of which will be fully understood from the following description of the accompanying drawings, in which—

20 Figure 1 is a perspective view of a coal-hod constructed according to my invention. Fig. 2 is a top plan view of the same. Fig. 3 is a side elevation of the blank formed into a cone or funnel shaped vessel, the bottom part showing in dotted lines the preliminary corruga-
25 tions, indicating lines on which the metal will be crimped and folded down to form the bottom. Fig. 4 is a central vertical section of the completed bucket or hod. Fig. 5 is the
30 blank from which the body of the bucket is formed.

Similar reference-letters are used to indicate identical parts wherever they occur throughout the various views.

35 The blank A, Fig. 5, being cut out to the shape shown, is bent around a cone-shaped former and the edges *a a* united in any suitable manner. This brings the blank to the form shown in Fig. 3. After the seam has been
40 made the partially-formed blank, Fig. 3, is placed upon a former having its end grooved or turned off in steps below the line *x x*, as shown in dotted lines, Fig. 3. Then, by suitable clamping-jaws, the metal in the lower end
45 of the blank is pressed to the shape of the former, commencing at the upper edge or groove, and successively pressing the metal into each groove in the former until the lower one has been pressed in. After this operation
50 has been performed the blank having the partially-folded bottom is placed and clamped

upon a former the exact shape of the interior of the hod, the exterior clamping device grasping the body of the hod just above the line *x x*. Then, by subjecting the partially-crimped bot-
55 tom to the action of a plunger, the crimps are folded down flat, as shown in Fig. 4, thus completing the body of the hod. The base B, handle C, and bail D are attached in the usual manner.
60

It will be seen that the surplus metal is taken up in the bottom which in use sustains the most wear. The hod is therefore strengthened where strength is most needed. It will
65 therefore last in use much longer than the common hod and can be produced at less expense.

I do not desire to limit myself to any particular form of crimp or fold for the bottom of the hod, nor to the exact shape of the blank
70 shown in Fig. 5, for it is evident that the form of the fold may be changed and still have the tapered end of the blank, Fig. 3, compressed to force the surplus metal to fold over and
75 strengthen the bottom, and also evident that the blank may be varied to suit different shapes of hods. I have selected one of the common forms to represent my invention. To change the blank to make a different form would be the work of a mechanic and require no inven-
80 tion.

It is also evident that my invention is applicable to buckets, scoops, and many other vessels made of sheet metal.

What I claim as new, and desire to secure
85 by Letters Patent, is—

1. The method of forming the body of a coal-hod or other similar vessel, which consists, substantially, as before set forth, in first forming a cone-shaped body from a suitable
90 blank, then folding in the cone end of said body in crimps to form the bottom.

2. As a new article of manufacture, a coal-hod formed of a single piece and having its bottom crimped or folded to form a series of
95 annular ribs or rings of progressively-increasing diameter, substantially as shown and described.

CHARLES HOFF.

Witnesses:

JACOB J. GESSERT,
GEO. J. MURRAY.