

J. H. Hall.
Diaper

N^o 19418.

Patented Feb 23. 1858.

Fig. 2.

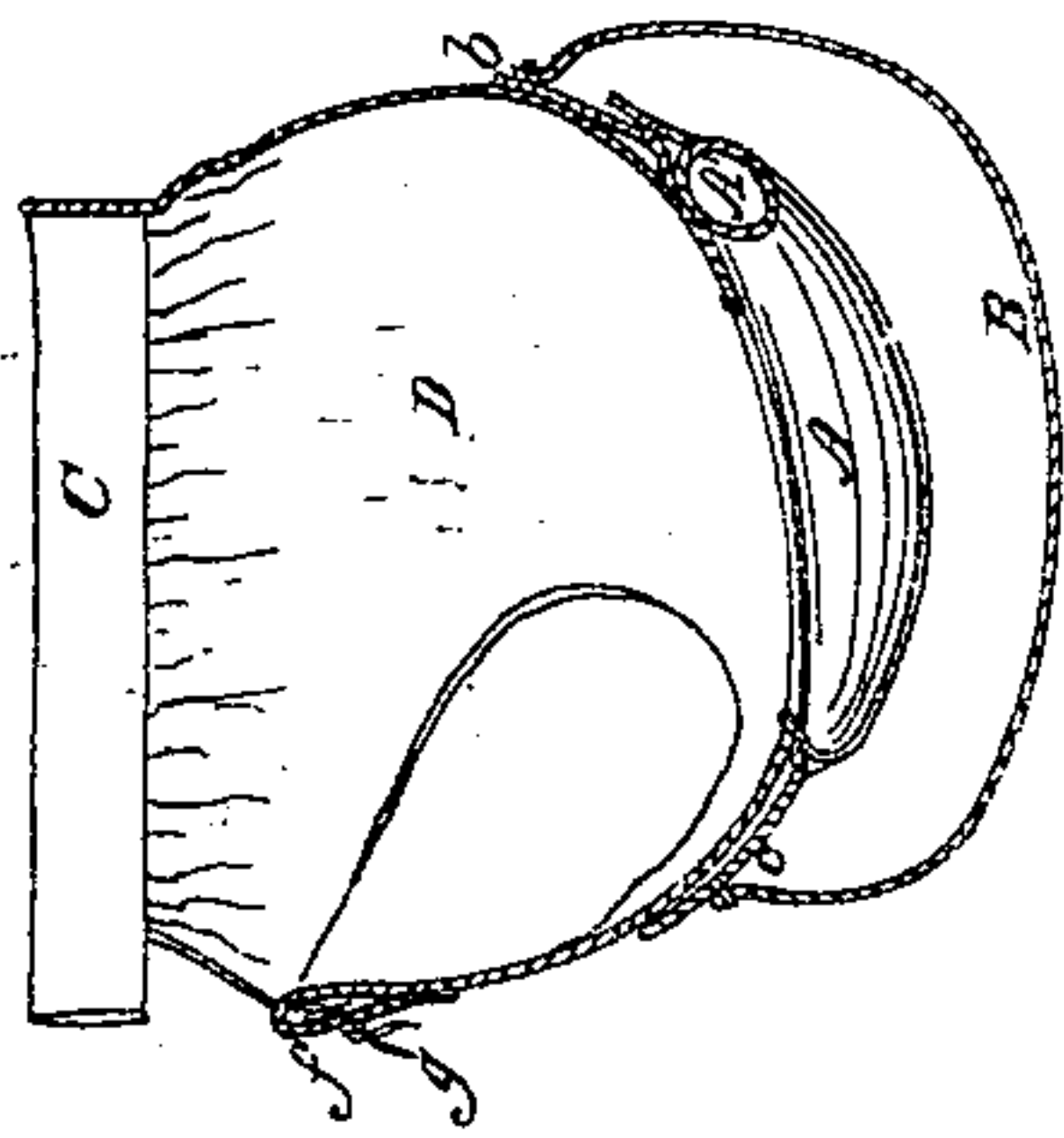


Fig. 3.

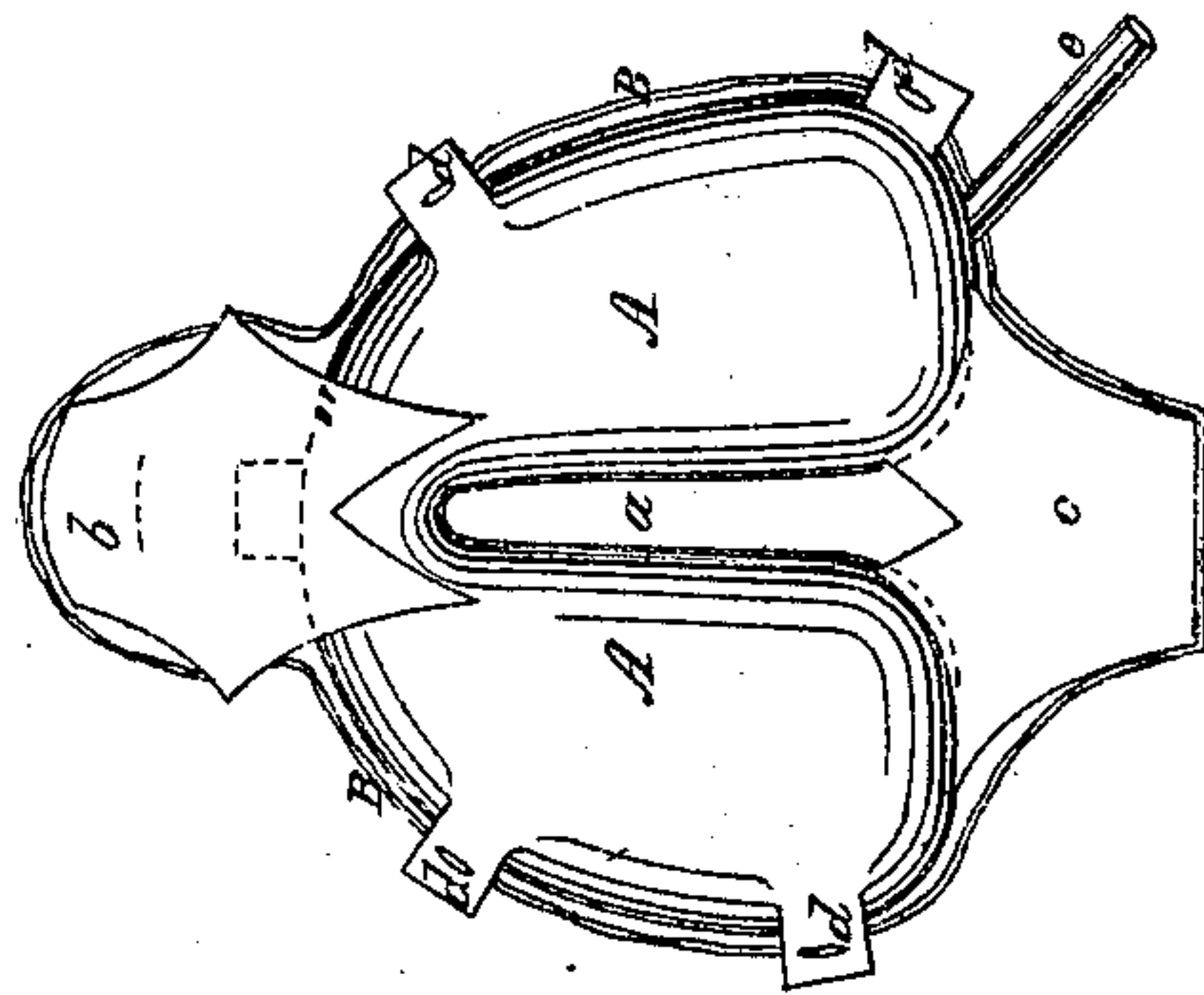


Fig. 1.

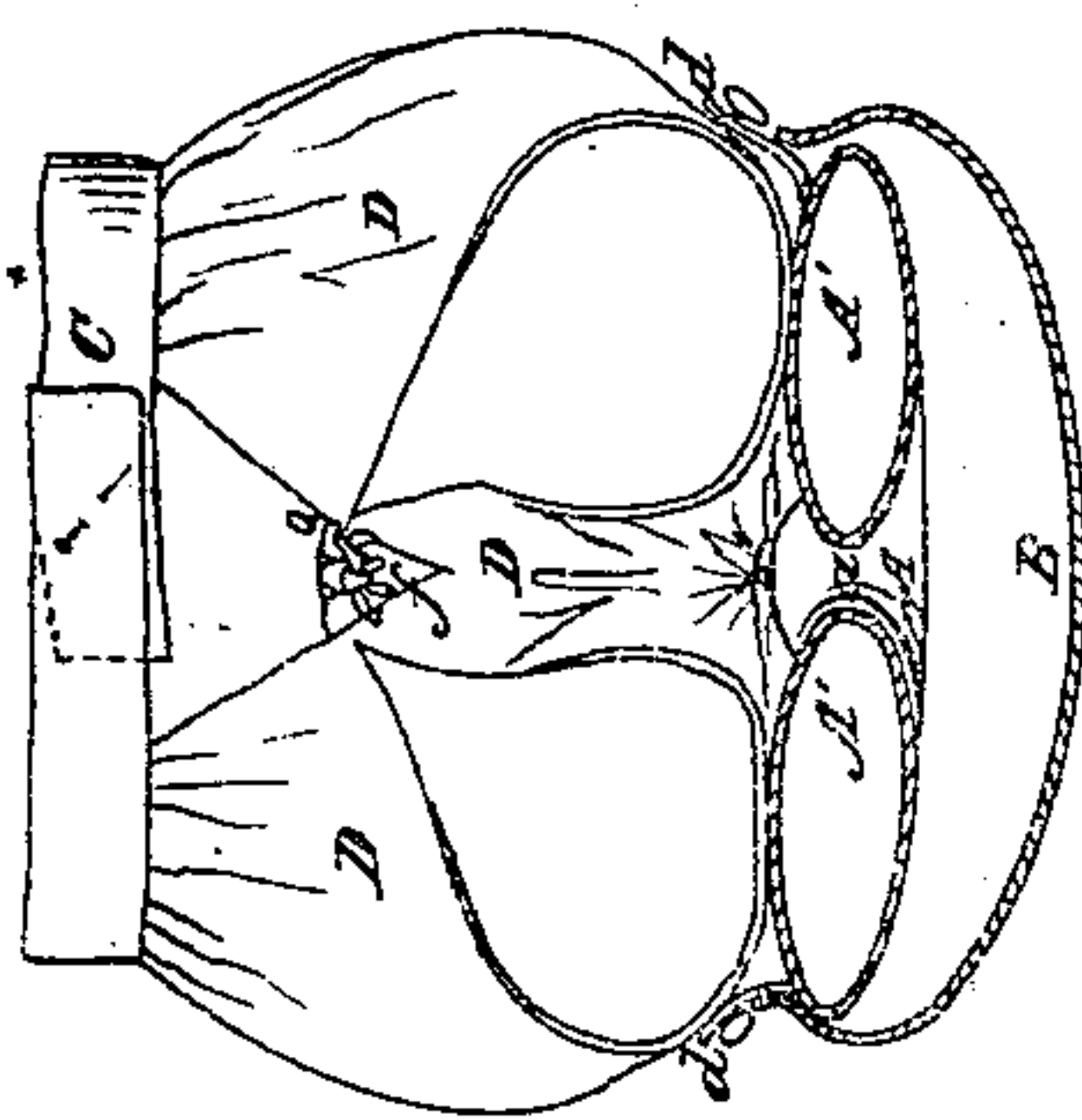
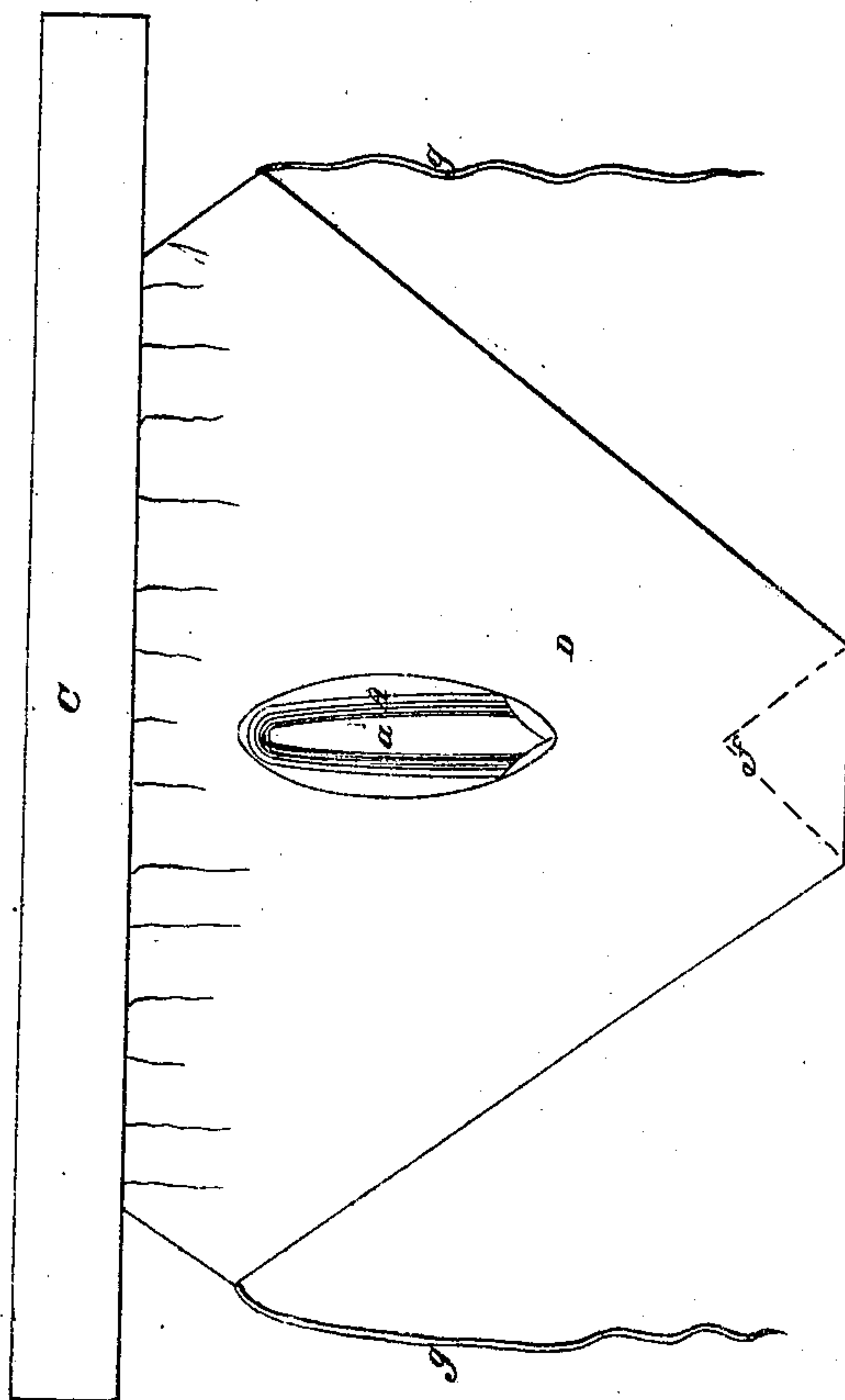


Fig. 4.



UNITED STATES PATENT OFFICE.

J. H. HALL, OF KITTANNING, PENNSYLVANIA.

SUBSTITUTE FOR INFANTS' DIAPERS.

Specification of Letters Patent No. 19,418, dated February 23, 1858.

To all whom it may concern:

Be it known that I, J. H. HALL, of Kittanning, in the county of Armstrong and State of Pennsylvania, have invented a new and
5 useful Substitute for Infants' Diapers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

10 My invention consists in an air cushion which is of such form as to fit the posteriors of an infant and is provided with an opening in the center, combined with a cloth of a proper form and a bag or receptacle of india
15 rubber or other waterproof material, in such a manner that when the cushion is attached to the body the excrement and urine will be discharged through the opening in the cushion into the bag or receptacle, where it will
20 be retained, without coming in contact with the body, which will be protected from it by the interposition of the cushion which serves as an easy seat as well as keeps the child clean.

25 In the drawing Figure 1, is a front view partly in section showing the apparatus complete in the form it assumes when worn. Fig. 2, is a complete central section of the apparatus taken from back to front. Fig.
30 3, is a top view of the air cushion and bag. Fig. 4 is a top view of the cloth to which the cushion is attached, and which serves to attach it to the body.

A, is the cushion made of india rubber or
35 india rubber cloth of nearly circular form with a long narrow opening *a*, (see Figs. 2 and 3) and with two tabs *b*, and *c*, one at the back and the other in front. This cushion is made with an air chamber *A'*, (see
40 Figs. 1 and 2) which extends along both sides and at the back of but not in front of the opening *a*, and which is inflated through a tube *e*, and is provided with tabs *d*, *d*, at the sides of the cushion these latter tabs
45 being much smaller than *b* and *c*.

B, is the bag or receptacle made of a piece of thin sheet india rubber gathered at the edges to give it the requisite form and tacked
50 to a piece of tape or any narrow piece of woven material which forms a selvage and serves both to prevent the india-rubber tearing and also as a means of attaching the bag to the cushion; the said selvage being either

tacked or buttoned to the tabs *b*, *c*, *d*. Instead of using this selvage the edges of the
55 bag may be cemented to the cushion.

C, D, is a cloth made of diaper or other woven fabric consisting of two parts of which one C, is in the form of a band to go
60 around the child's waist, and the other part D, is of nearly triangular form and has one side sewed to the said band. That corner *f*, of the piece D, which is opposite to and farthest from the band C, is turned under or
65 over (as shown in dotted outline in Fig. 4, which shows the cloth laid out flat), and stitched to form a loop (as shown at *f*, in Figs. 1 and 2) and the two other corners
70 near the band have each a string *g*, attached. The cloth C D, is provided with a hole to correspond with the opening *a*, in the cushion A and it is to be furnished with a suitable number of buttons to be secured to
75 the several tabs on the cushion A, by means of button holes in the tabs or the cloth may be tacked to the tabs, but the attachment by buttons is preferable as it is more convenient.

The apparatus is applied in the following manner. The bag B, having been attached
80 to the cushion A and the cushion to the cloth C D, the cloth is placed next the body so as to cover the whole of the posteriors and bring the center of the hole in the cloth and the opening *a*, in the cushion opposite the
85 rectum, and the band C, is then fastened by a pin or button tightly around the waist. When the band has been fastened the looped corner *f*, to which the front tab *c*, and a fully gathered portion of the bag are at-
90 tached, is drawn forward between the child's legs and the two strings passed through the loop *f*, and drawn tight and tied together. When thus secured the cushion covers the
95 posteriors and forms a comfortable seat for the child who is protected from any irritating action of the india rubber by the cloth C, D; and the opening *a*, occupies such a position that the excrement and urine cannot
100 fail to pass through it into the bag B, where it is retained in such a manner as to prevent it coming in contact with the child, who is kept clean without the frequent change which is necessary when "diapers" are used.

When the bag and cushion requires clean-
105 ing they are removed from the cloth and

washed in warm or cold water which can be done quickly, and when the cloth C, D, is attached to them the whole apparatus can be re-applied as before described.

5 What I claim as my invention and desire to secure by Letters Patent, is—

The combination of a cushion A, bag or

receptacle B, and cloth C D, substantially as described for the purpose set forth.

J. H. HALL.

Witnesses:

THOS. McCONNELL,

GEO. PORTSMOUTH.