

J. H. KAPPELHOFF.  
Muff.

No. 209,271.

Patented Oct. 22, 1878.

Fig. 1.

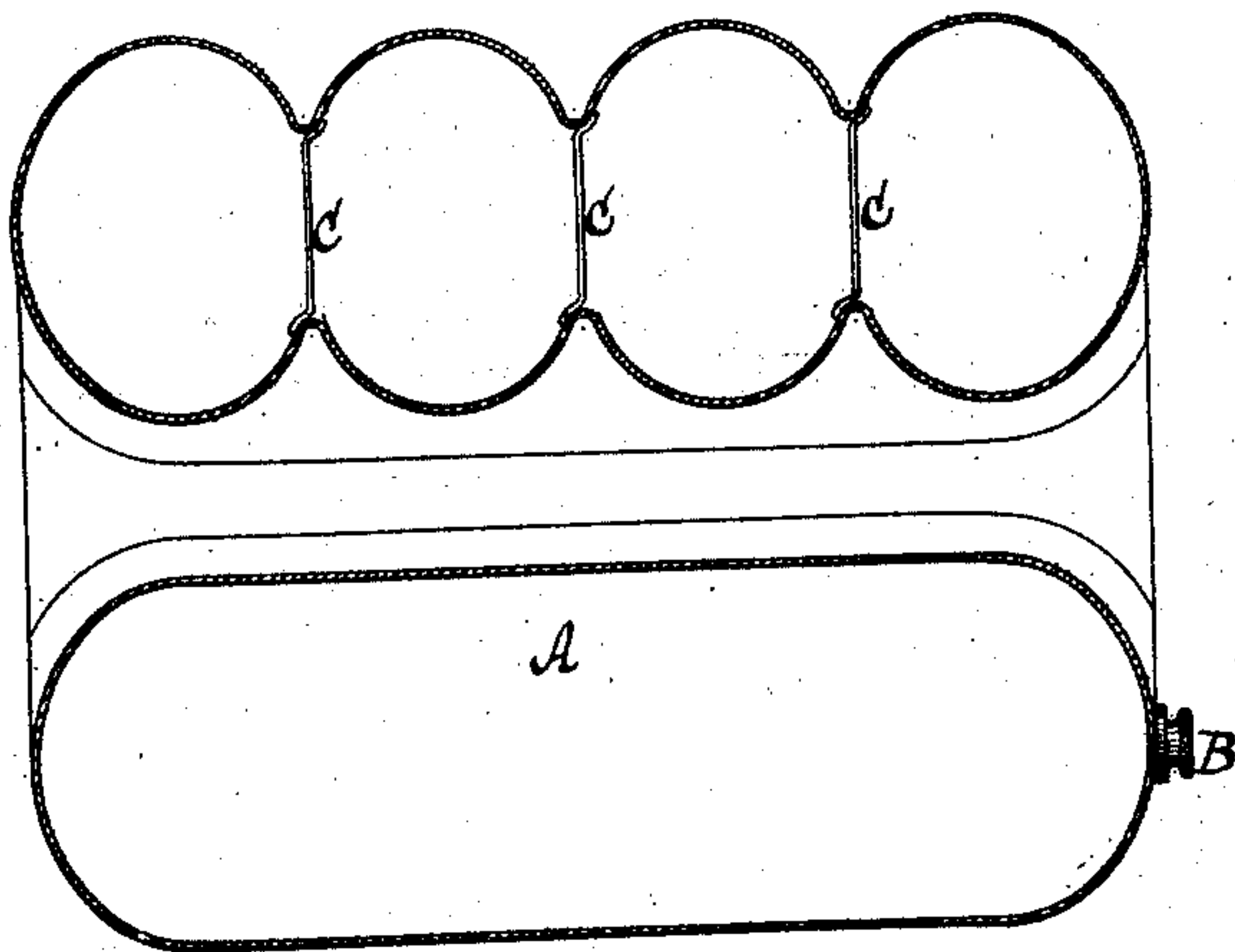
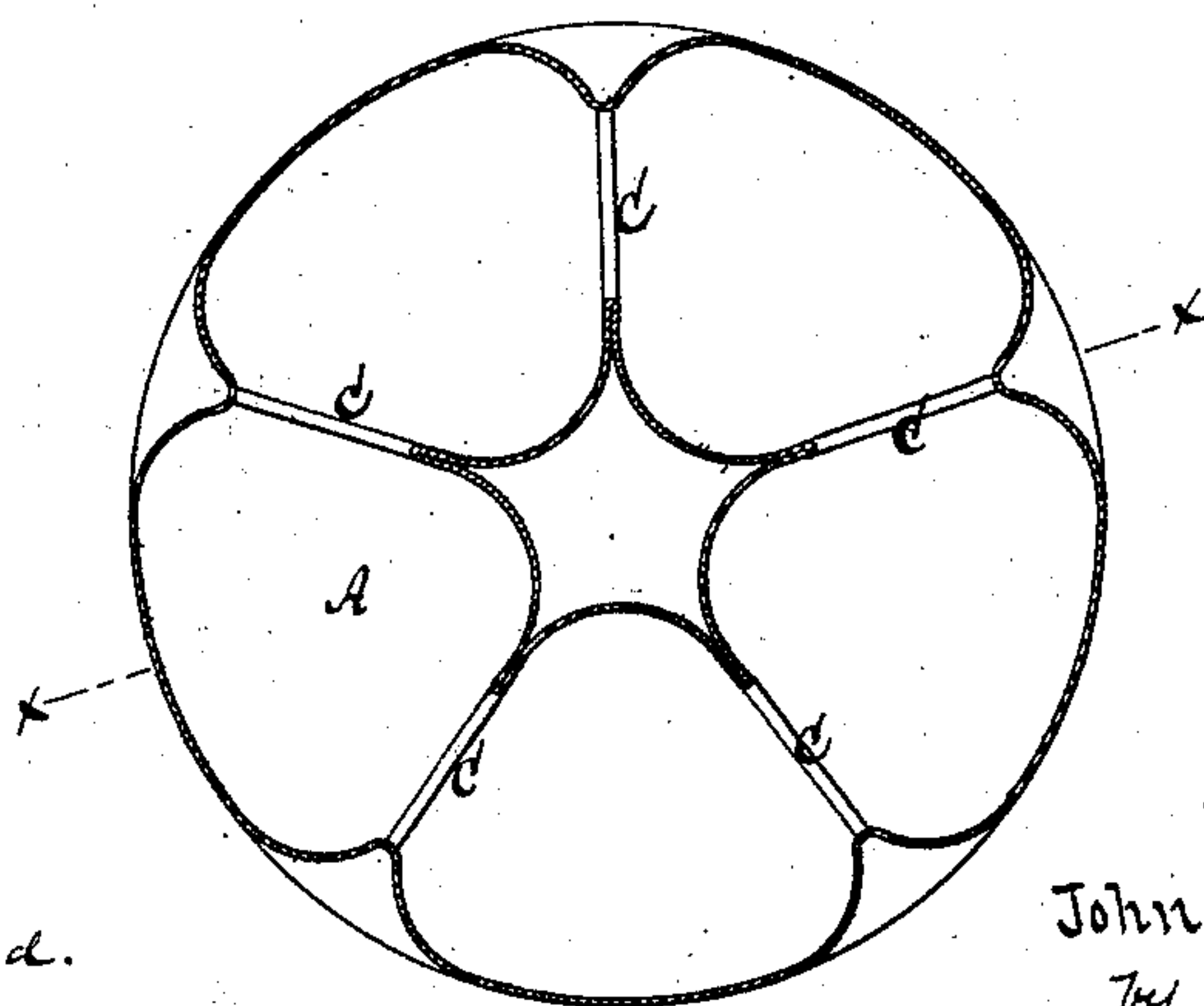


Fig. 2.



Witnesses.

*Edo Aufeland.*

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by  
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# UNITED STATES PATENT OFFICE.

JOHN H. KAPPELHOFF, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN MUFFS.

Specification forming part of Letters Patent No. **209,271**, dated October 22, 1878; application filed June 27, 1878.

*To all whom it may concern:*

Be it known that I, JOHN H. KAPPELHOFF, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Muffs, which invention is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a longitudinal section of my muff in the plane *x x*, Fig. 2. Fig. 2 is a cross-section thereof.

Similar letters indicate corresponding parts.

The object of my invention is to furnish a muff which possesses the required degree of warmth, and which is lighter, besides being less expensive, than those now generally in use.

It consists in a muff constructed of an annular closed bag or vessel of vulcanized india-rubber or other inflatable material, having an aperture for the admission of air, so that the bag can be filled with air, and thereby brought to the proper shape. I connect the inner and outer parts of the bag or vessel composing my muff by radial bands, whereby a symmetrical appearance or shape is given to the article when it is inflated.

In the drawing, the letter A designates a bag or vessel shaped according to my invention to form a muff, the same having an annular shape and being closed at its ends. I prefer to make this bag of vulcanized india-rubber; but it can also be made of animal-skins, or of any other material capable of being inflated. B is an aperture, by which air is admitted to the bag; and C are radial bands, by which the inner and outer parts of the bag are connected together. These bands are made of any suitable non-elastic material, and are arranged in rows, as shown in Fig. 1.

In carrying out my invention I take a straight bag of proper length and width and fasten the bands C therein in the proper positions; then bend this bag and unite the two ends thereof, so as to give the same the desired annular shape. If the bag is of india-rubber, the bands C are caused to adhere thereto, and the ends of the bag are united by the vulcanization of the rubber.

When the bag A is to be used air is forced into the same in any suitable manner through the aperture B, and when the bag has been inflated to the desired extent the aperture is closed by a suitable stopper.

If desired, the bag may be covered with fur or other desirable material, and finished in the usual way of finishing a muff.

It will be readily understood that by filling the bag composing my muff with air the same is rendered exceedingly warm, while the weight thereof is reduced to a minimum, and the least expense is incurred in its production; and since the bands C have a tendency to hold the inner and outer parts or walls of the bag parallel to each other the same is brought to and held in symmetrical shape.

I am aware that it is not new to so construct a muff that it may be inflated with air through an opening in the same, and such, broadly, I hereby disclaim.

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

1. A muff consisting of a bag having its two side edges brought together and united, to impart an annular shape thereto and form an inner and outer casing to create an intervening space, said bag being constructed with an opening adapted to be closed by a stopper, whereby the bag may be inflated, all constructed and arranged substantially as and for the purpose described.

2. A muff composed of an annular closed bag or vessel of india rubber or other inflatable material, having an aperture for the admission of air, and having radial bands to connect its inner and outer parts and preserve the shape thereof, substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 21st day of June, 1877.

JOHN H. KAPPELHOFF. [L. S.]

Witnesses:

W. HAUFF,  
E. F. KASTENHUBER.