

C. SEDGWICK.

EAR-MUFF.

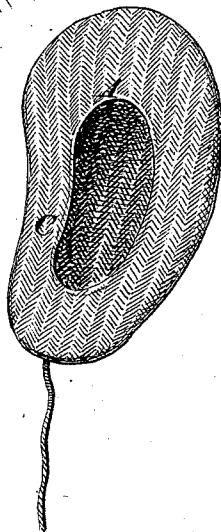
No. 177,755.

Patented May 23, 1876.

Fig. 1.



Fig. 2.



Witnesses:
Isisave Dietrich
A. P. Meyer

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UNITED STATES PATENT OFFICE.

CHARLES SEDGWICK, OF NEW YORK, N. Y., ASSIGNOR TO CHARLES H. NASH, OF BLOOMFIELD, NEW JERSEY.

IMPROVEMENT IN EAR-MUFFS.

Specification forming part of Letters Patent No. **177,755**, dated May 23, 1876; application filed September 30, 1875.

To all whom it may concern:

Be it known that I, CHARLES SEDGWICK, of the city, county, and State of New York, have invented a new and Improved Ear-Muff, of which the following is a specification:

My invention consists of a new manufacture of ear-muffs, the same being ear-muffs knitted or woven, which attach directly to the ear, produced in the complete form of the finished article in one piece, as an improvement upon those which have hitherto been made of cloth cut in several pieces and contrived in a kind of cup or pocket-shaped device on a wire frame.

Figure 1 is a perspective view of a muff, such as I propose to make, as applied to the ear of a person, and Fig. 2 is a perspective view of the inner side.

The waste of material involved in making these articles of cloth is a very considerable proportion of the stock, owing to the oval form of the parts, also the large hole in the middle portion of one of the sides, from which the pieces cut, though small, are large proportionately to the parts of which the muff is made.

These muffs are commonly made of an outer web of fine cloth and an inner web of lining, thus doubling the amount of waste that would be incurred if made of one web only; but, as it is necessary to use two webs, because one of sufficient thickness for the necessary warmth would be too clumsy, particularly on account of the welts of the seam around the edges by which the inner and outer portions are sewed together, this double waste cannot well be avoided in the making of ear-muffs of cloth. Moreover, the cutting out the shape, the arranging and basting the pieces, and sewing them up, is a more expensive process of making them than need be. I therefore propose to knit such muffs, using yarn of soft wool, or other suitable material, and knitting them of such

tension as to make them of sufficient thickness to afford the necessary warmth with one web.

The simplest plan of making them in this way will be to knit a double fabric in the form represented in the drawings, and then cut out the hole A to admit the ear from the inner side; but as this would involve some loss of material, which can be saved by producing them in the exact finished shape by the knitting process, I propose to do so by knitting the outer portion B first, beginning at the middle and making a circular fabric until the requisite width is obtained; then elongating, to make the upper and lower extensions, by knitting forward and backward thereon till the required shape is produced; then knitting all the way around, but narrowing; and then turning the fabric back in the inside of the outer portion, producing the inner fabric C and terminating at the hole, when the edge may be turned over an elastic or other cord; or the cord may be "run" in the stitches, or the stitches may be doubled to give the muff the requisite elasticity in this portion.

Such muffs can also be made by weaving a double fabric in the form of the exterior shape, and then cutting out the hole A. They may also be woven in the manner of weaving hats upon a former, the former being made so that it can be taken apart in small pieces to remove it through the hole A.

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

As a new article of manufacture, an ear-muff made in one piece, either knitted or woven, substantially as shown and described.

CHARLES SEDGWICK.

Witnesses:

GUSTAVE DIETERICH,
TOMPSON BENJAMIN MOSHER.