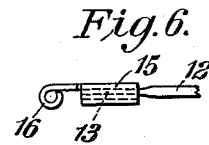
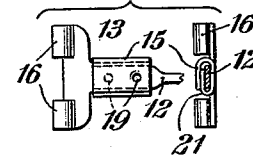
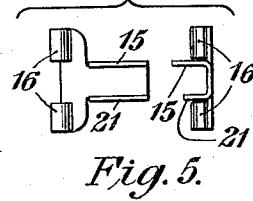
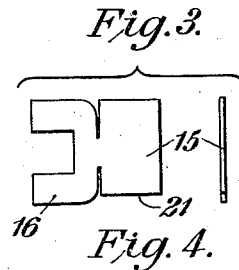
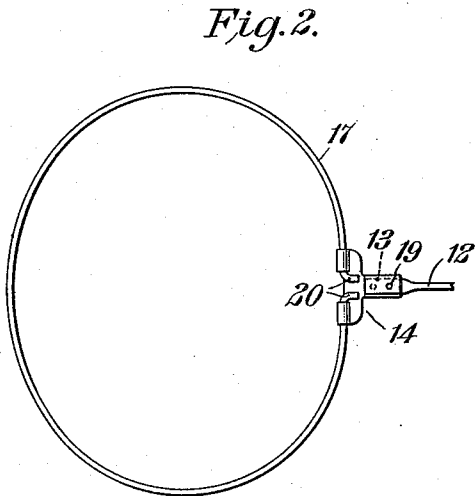
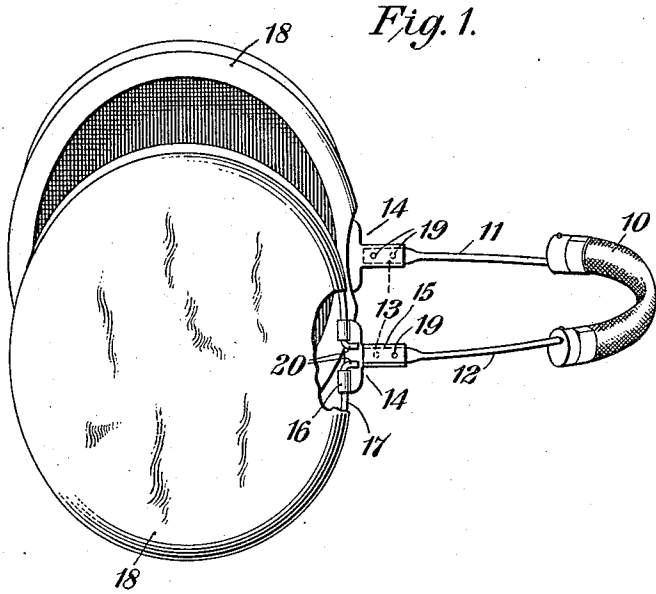


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 HINGE FOR EAR MUFFS.
 APPLICATION FILED OCT. 10, 1914.

1,149,806.

Patented Aug. 10, 1915.



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HINGE FOR EAR-MUFFS.

1,149,806.

Specification of Letters Patent.

Patented Aug. 10, 1915.

Application filed October 10, 1914. Serial No. 865,999.

To all whom it may concern:

Be it known that I, DAVID BASCH, a citizen of the United States of America, and a resident of the city, county, and State of New York, have invented certain new and useful Improvements in Hinges for Ear-Muffs, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to wearing apparel, and has special reference to ear muffs.

One object of my invention is to provide a simple and improved ear muff that may be easily folded to occupy a small space, and a particularly desirable hinge structure therefor.

Other objects and advantages of my invention will be set forth hereinafter, and in order that my invention may be thoroughly understood, I will now proceed to describe the same in the following specification and then point out the novel features thereof in appended claims.

Referring to the drawings: Figure 1 is a perspective view with a portion of the fabric cut away to disclose the hinge more in detail, of an ear muff embodying my invention. A single ear muff frame with its hinge is shown in Fig. 2. Figs. 3, 4, 5 and 6 show successive steps in the formation of the hinge which forms a part of the structure shown in Fig. 1.

In the drawings, 10 represents a curved tubular casing which is preferably corded in a well known manner and is adapted to receive a pair of resilient extensions 11-12. These extensions are preferably formed of round steel wire and are telescoped into the tubular casing 10. As clearly shown in Fig. 1 their ends are flattened at 13, to cooperate with a portion of the hinge as will be hereinafter explained.

14 designates a hinge which connects the ear muff proper to the holder and is formed of sheet metal. Its initial form is shown in Fig. 3 and it obviously may be produced in large quantities by a stamping or punching process.

The stamping comprises a rectangular member 15 and a U-shaped member 16 integral therewith. The ends of the rectangular member are adapted to be folded over the flattened end of one of the wires (see Fig. 1) and the arms of the U-shaped member 16 are adapted to be bent around the

respective ends of a wire frame 17 which is curved inwardly into an elliptical form and supports the ear muff 18. The hinge end of the wire 11 is flattened to prevent its accidental removal from and its turning within the sleeve of the hinge, the hinge sleeve being indented on opposite sides as at 19 to make the connection between the wire and the sleeve more rigid and permanent.

By cutting one end of the rectangular member 15 back as shown at 21 in Figs. 3 and 4 and folding this end under the other and closely about the flattened end of the wire 12 as shown in Fig. 5, the wire is very firmly held in place and the ear muff is prevented from improperly swinging or turning.

I have hitherto utilized ear muff hinges in which the wire of the holder was bent around a rivet pin, but the rivet pin is likely to wear loose and permit the muff to turn about the pin as an axis. This difficulty has been entirely avoided by the hinge of my present invention which is furthermore more simple in construction and may be manufactured in large quantities at less expense.

The ends of the frame 17 are bent to constitute stops 20 which limit the angle to which the muff may be swung relative to the holder. Thus the muffs may be pressed firmly into position on the ears of the wearer by the resiliency of the wires 11 and 12.

Attention is directed to the fact that the hinge coöperates in a particularly simple and desirable way with the frame 17.

What I claim is:

1. The combination with a holder having a flattened end and a stamped metal hinge formed to comprise a sleeve to coöperate with the flattened end of the holder, and a pair of spaced hinge bearings, of a curved frame of substantially elliptical form having its respective ends extending through the hinge bearings and bent over to constitute hinge stops.

2. In an ear muff, the combination with a holder comprising a round wire section having a flattened end, a stamped metal hinge formed from a blank having a rectangular portion and a U-shaped portion to comprise a sleeve adapted to coöperate with the flattened end of the wire support, and a pair of spaced bearings at substantially right an-

gles to the sleeve, of a wire frame bent into elliptical form and having its ends extending through the respective bearings and bent at right angles to constitute hinge stops, said sleeve being indented to fix it rigidly to the flattened end of the wire support.

In testimony whereof I have hereunto set

my hand this 9th day of October 1914, in the presence of two subscribing witnesses.

DAVID BASCH.

Witnesses:

R. J. DEARBORN,

F. GRAVES.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."