

D. BASCH.
EAR MUFF.

APPLICATION FILED FEB. 4, 1918.

1,398,958.

Patented Dec. 6, 1921.

Fig. 1,

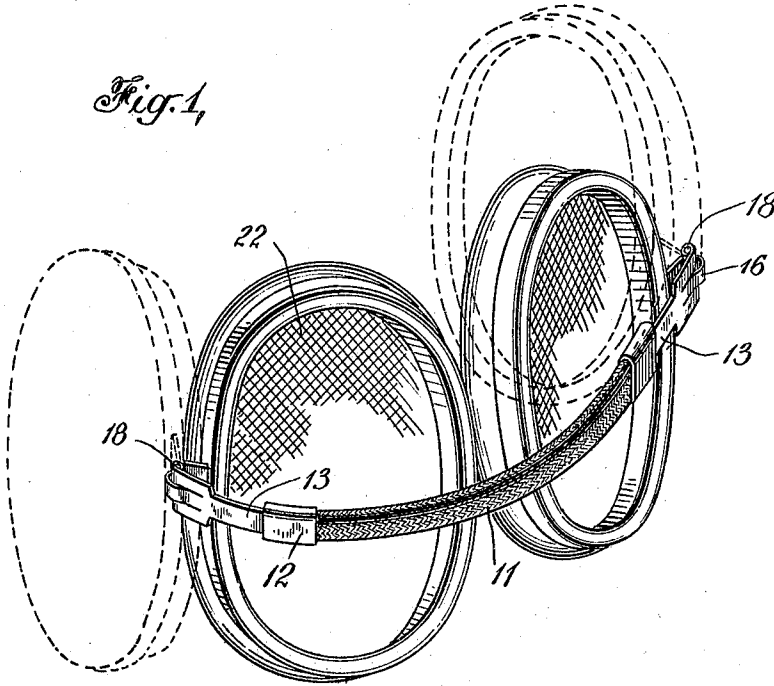


Fig. 2,

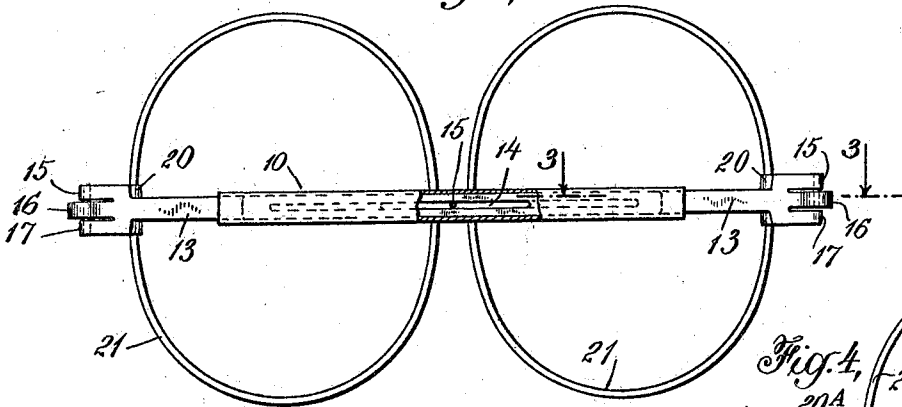


Fig. 3,

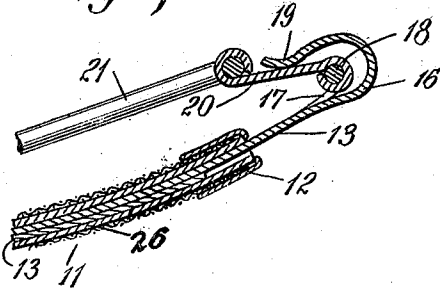


Fig. 5,

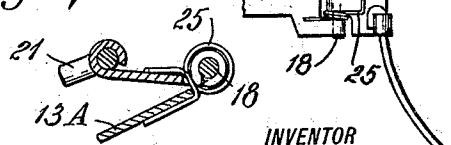
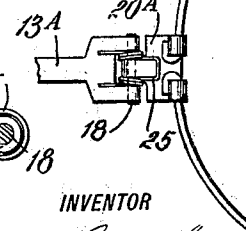


Fig. 4,



INVENTOR

David Basch
BY
Marshall & Dearborn
ATTORNEYS

UNITED STATES PATENT OFFICE.

DAVID BASCH, OF NEW YORK, N. Y.

EAR-MUFF.

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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 New York, county of Bronx, and State of New York, have invented certain new and useful Improvements in Ear-Muffs, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to improvements in ear muffs, and its object is to provide a simple and inexpensive device which will fit closely over the ears of the wearer.

More specifically its object is to provide a connecting support for two ear covers which will press the covers against the sides of the head in such a way as to afford the best possible protection from the elements.

A still further object is to make the device adjustable and so arranged that it will fold itself into a small space when not in use.

Another feature of this invention is the construction of a spring hinge and support which facilitates the application of the ear muff and tends to fold the covers against the ears when in use and against their connecting device when it is removed from the head.

In order that my invention may be thoroughly understood I will now proceed to describe the same in the following specification, and will then point out the novel features thereof in appended claims.

Referring to the drawings:

Figure 1 is a perspective view of an ear-muff made according to and embodying my invention. In this figure the device is shown in its folded condition in full lines, and the ear covers shown swung about their spring hinges, in light broken lines.

Fig. 2 is a rear elevation of the support and the frames of the ear covers. A part of the connecting frame is broken away in this figure in order to more clearly show its construction.

Fig. 3 is a sectional plan view on an enlarged scale, of certain parts of the structure shown in the preceding figures.

Fig. 4 is a rear elevation of a modified form of spring hinge and its adjacent parts.

Fig. 5 is a sectional plan view of the parts shown in Fig. 4.

Like characters of reference designate corresponding parts in all the figures.

10 designates a flattened tubular member which is curved as shown and covered with a braid 11 with the ends thereof protected by metallic caps 12. The ends of this tubular member are open as shown.

13, 13 are two like supports of spring metal which overlap within the tubular member and fit closely therein. Each of these spring supports is slotted as at 14 and a pin 15 which is secured to the center of the tubular member passes through these slots. This construction provides for a movement of the spring supports relative to the tubular member but prevents their removal therefrom. One end of each of these spring supports is widened and two cuts therein divide this widened part into three fingers 15, 16 and 17. The fingers 15 and 17 are bent around and support a pivot pin 18 upon which is rotatively mounted a connecting member 20 of sheet metal, to the other end of which is rigidly secured an elliptical wire frame 21 of sufficient size to entirely surround an ear. This frame is covered with textile material or felt 22 in the well known manner. The central finger 16 of the spring support bears with pressure upon the connecting member 20 at 19 and tends to swing the wire frame 21 inwardly toward the tubular connecting member 10 or to the position shown in Figs. 2 and 3, and in full lines in Fig. 1. After the spring supports are bent to the desired form they are tempered.

The hinge connection between the spring support 13^A and the connecting member 20^A shown in Figs. 4 and 5, differs in construction from that shown in the other figures, in that the central spring finger 16 is omitted and a wire spring 25 is used to press the ear cover frame inwardly.

The tubular member 10 and the spring supports 13 serve to hold the ear covers a desired distance apart, and the construction which permits the spring supports to slide longitudinally makes it easy to adjust this distance between the ear covers. The parts of the spring supports which are within the tubular member are preferably bent on a shorter radius than that of the tubular member so that their resiliency tends to hold them in whatever position of adjustment they are placed. The construction of these parts is such that they prevent the pins 18

from being distorted out of the desired relative positions which is preferably parallel with each other.

When the device is placed on the head the spring supports tend to press the rear edges of the ear covers against the head back of the ears, and the spring hinges press the forward edges of the ear covers against the head in front of the ears. Thus the ears are fully protected and the device held snugly in place without the slightest discomfort. As soon as the device is removed the spring hinges swing the ear covers back against the tubular member 10 and when the spring supports are pushed into the tubular member the parts occupy but little space and may be carried in the pocket conveniently.

The structures shown and described are illustrative embodiments of my invention, but other structural modifications may be made without departing from the scope of the invention. I therefore intend no limitations other than those imposed by the appended claims.

What I claim is:

1. An ear muff comprising a pair of ear covers, an adjustable spring support therefor, pivotal connections intermediate the edges of said covers and the support, and springs arranged to swing the ear covers toward each other and toward the support.

2. An ear muff comprising a pair of ear covers, an adjustable support therefor comprising a pair of overlapping flat springs, a pivotal connection intermediate an edge of each cover and one of said flat springs, means for holding the flat springs in ad-

justed position and springs at said pivotal connections arranged to swing the ear covers toward each other and toward the support.

3. An ear muff comprising a pair of ear covers, an adjustable support therefor comprising a pair of overlapping flat springs arranged to press the rear edges of the covers toward each other, means for preventing the separation of said flat springs, a pivotal connection intermediate an edge of each cover and one of said flat springs, means for holding the flat springs in adjusted position and springs at said pivotal connections arranged to swing the forward edges of the ear covers inwardly.

4. An ear muff comprising a pair of ear covers, a pair of flat spring supports therefor, a pivotal support between the edge of each cover and its adjacent support, resilient means for swinging the ear covers against the ears and toward said supports; a curved flattened tubular member for holding said spring supports together in slidable relation, the parts of said spring supports which are within the tubular member being constructed with longitudinal slots, and a pin supported by the tubular member and passing through the said slots.

5. In an ear muff, the combination with a support, of a pair of ear covers pivotally secured to the terminals of said support, and resilient means for swinging the covers toward each other and into position against the support.

In witness whereof I have hereunto set my hand this 2nd day of Feb., 1918.

DAVID BASCH.