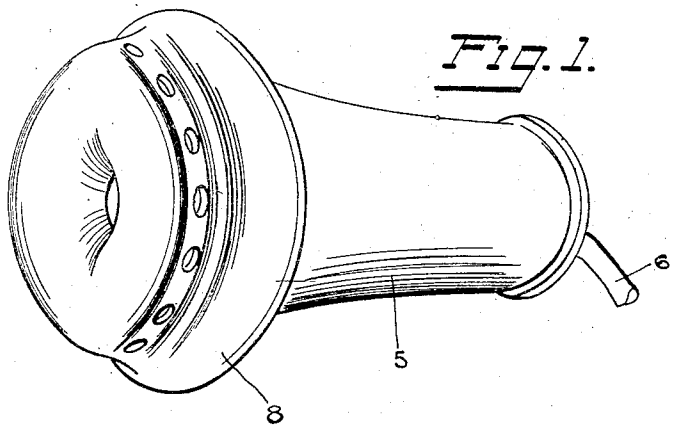
June 24, 1924. 1,498,727

F. HASKEL

REMOVABLE EAR CUSHION FOR TELEPHONES

Filed April 7, 1923

Fig. 1.



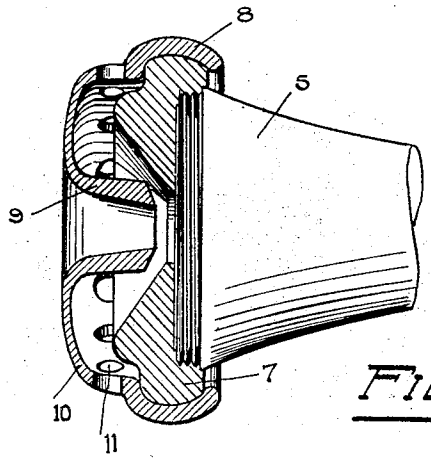


Fig. 2.

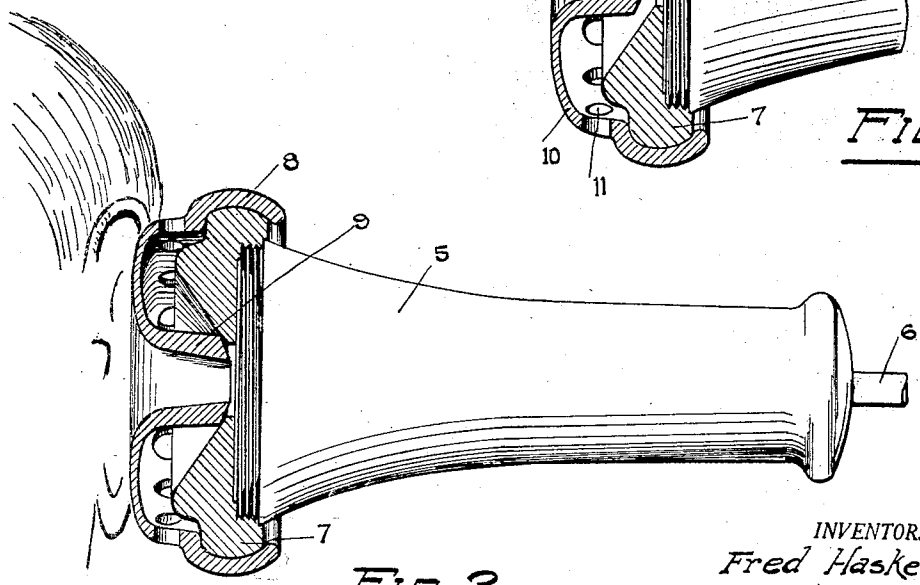


Fig. 3.

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UNITED STATES PATENT OFFICE.

FRED HASKEL, OF DETROIT, MICHIGAN.

REMOVABLE EAR-CUSHION FOR TELEPHONES.

Application filed April 7, 1923. Serial No. 630,427.

To all whom it may concern:

Be it known that I, FRED HASKEL, a citizen of the United States, and residing at Detroit, county of Wayne, and State of Michigan, have invented a new and Improved Removable Ear-Cushion for Telephones, of which the following is a specification.

This invention relates to removable ear-cushions for telephones and has for its principal object the provision of an efficient ear-cushion readily applicable to the usual telephone receivers and which will eliminate exterior noises from the ear while affording greater comfort to the user.

Another object of the invention is the arrangement in a flexible rubber ear-cushion of a central member movable by contact with the ear to a position closely adjacent the receiver diaphragm with a plurality of apertures therearound, adapted both to provide air circulation and to dissipate excessive noises from the diaphragm.

The above and other objects of my invention will be apparent from the following description wherein reference is made to the accompanying drawings illustrating a preferred embodiment of my invention, and wherein similar reference numerals designate similar parts throughout the several views.

In the drawings:—

Fig. 1 is a perspective view of a telephone receiver equipped with my removable ear-cushion;

Fig. 2 is a central vertical section showing the normal position of the ear-cushion upon the receiver, and

Fig. 3 is a similar section showing the position assumed by the ear-cushion when firmly pressed against the ear.

Referring now to the drawings the numeral 5 designates the body portion of a telephone receiver of the usual or any desired construction and housing the receiving magnets for operating the receiver diaphragm, which are connected with the telephone circuit through the wiring 6. The normal ear contact-piece 7 provided with the ordinary receiver is illustrated herein in its conventional form and threaded upon the body portion 5, though it is to be understood that this construction is for purposes of exemplification only, and that my improved ear-cushion can be shaped and formed to fit over any desired ear contact-piece.

My removable ear-cushion is herein shown as formed of a single piece of flexible rubber having the securing portion 8 stretched over the periphery of the ear contact-piece 7 of the receiver when the cushion is in position for use. A central sound conducting funnel 9 is arranged to align with the central opening in the contact-piece 7 for guiding the sound conducting-waves from the diaphragm to the ear, the funnel 9 being normally held in spaced relation to the contact-piece 7 by the perforated cushioning portion 10 arranged between said funnel and the receiving portion 8, as best shown in Fig. 2. The perforations 11 may be arranged in any desired manner and serve both to provide means for allowing an air circulation to prevent perspiring of the ear when the receiver is in use, and to permit the dissipation of excessive noises emanating from the receiver diaphragm.

In ordinary use the ear-cushion is lightly pressed against the ear of the person using the telephone without altering the position of the central funnel 9 from that shown in Fig. 2, the sound waves from the diaphragm being directly conducted to the ear drum through the funnel 9 in sufficient volume to enable distinct hearing. When, however, it is desired to receive a long distance message, or when the telephone receiver is located in a noisy office or factory, the ear-cushion is more firmly pressed against the ear of the user until the central funnel 9 assumes the position shown in Fig. 3 with its inner extremity engaging the contact-piece 7 closely adjacent the diaphragm, whereupon the ear-cushion serves to shut out exterior noises while providing a direct sound wave passage from the diaphragm to the ear drum without possibility of the waves being dissipated between.

While it will be apparent that the illustrated embodiment of my invention herein disclosed is well calculated to adequately fulfill the objects and advantages primarily stated, it is to be understood that the invention is susceptible to variation, modification and change within the spirit and scope of the subjoined claims.

Having described my invention, I claim:—

1. An ear-cushion for telephone receivers comprising a securing portion adapted to be mounted over the usual ear contact-piece of a telephone receiver, a sound conducting

funnel arranged centrally of the securing portion, and a cushioning portion formed integrally with and connecting the funnel with the securing portion.

2. An ear-cushion for telephone receivers comprising a securing portion adapted to be mounted over the usual ear contact-piece of a telephone receiver, a sound conducting funnel arranged centrally of the securing portion, and a cushioning portion connecting the funnel with the securing portion having a plurality of apertures therein arranged to provide air circulation around the funnel and dissipation of excessive noises from the receiver diaphragm.

3. An ear-cushion for telephone receivers comprising a securing portion adapted to be mounted over the usual ear contact-piece of a telephone receiver, a sound conducting funnel arranged centrally of the securing portion, and a flexible cushioning portion between the funnel and securing portion, the funnel being arranged with its inner extremity normally spaced from the ear contact-piece but movable into engagement therewith by pressure against the ear of a user.

4. An ear-cushion for telephone receivers comprising a securing portion adapted to be mounted over the usual ear contact-piece of a telephone receiver, and an apertured cushioning portion carried by the securing portion and normally spaced from the ear contact-piece but movable into engagement therewith when the receiver is firmly held against the ear.

In witness whereof I hereunto set my hand.

FRED HASKEL.

Witnesses:

CLAYTON E. WYRICK,

LULU E. IHRIG.