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S. SCHULHOFF

EAR CUSHION

Filed May 20, 1924

Fig. 1.

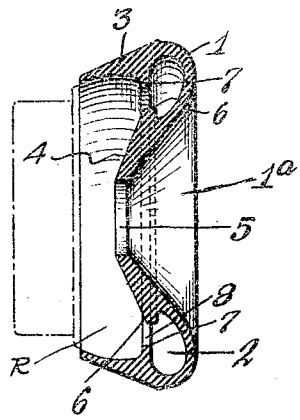


Fig. 2.

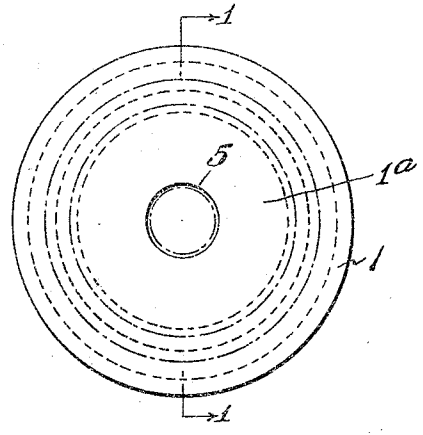
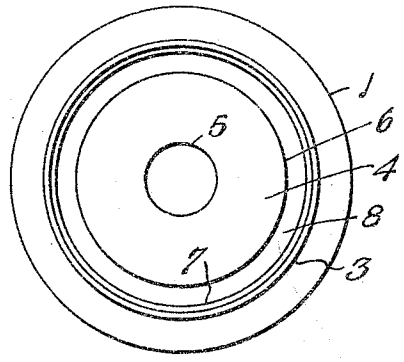


Fig. 3.



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UNITED STATES PATENT OFFICE.

SAUL SCHULHOFF, OF TRENTON, NEW JERSEY.

EAR CUSHION.

Application filed May 20, 1924. Serial No. 714,618.

This invention comprehends certain new and useful improvements in cushions for the ear pieces of telephone or radio head sets, and the invention has for its object a simple device of this character so formed that it can be easily and cheaply manufactured out of ordinary solid molded rubber as distinguished from sponge rubber or other highly elastic soft rubber, while at the same time sufficient pneumatic action is secured which will render the device comfortable when pressed against one's ear.

In the accompanying drawing—

Figure 1 is a transverse sectional view taken through a cushion constructed in accordance with an embodiment of my invention and in applied position, the associated receiver being diagrammatically indicated by broken lines, the line of section being taken substantially on the line 1—1 of Figure 2;

Figure 2 is a view in front elevation of the cushion as illustrated in Figure 1;

Figure 3 is view in rear elevation of the cushion as herein disclosed.

My improved ear cushion for telephone receivers and the ear pieces of telephone and radio head sets is a molded article consisting of a circular hollow rim portion 1, the interior of which forms an annular chamber 2, and an integral skirt or band 3 which is preferably tapered in cross section as best illustrated in Fig. 1, and which is designed to encircle and snugly embrace a receiver R or the like, as indicated in dotted lines, so as to hold the device securely in place.

The front face 1^a of the rim portion 1 tapers inwardly as shown and forms the front wall of a circular disc-like member 4 which is formed with the centrally disposed aperture 5 designed to register with the opening in the receiver or ear piece to which the cushion is attached.

It is to be especially noted that the tapered edge of the disc 4 forms an annular, laterally projecting rib 6 which is in transverse registry with a corresponding or complemental annular rib 7 projecting inwardly at the junction of the skirt or band 3 with the rim portion 1, these two annular ribs 6 and 7 being slightly spaced from each other as shown, to produce an annular restricted opening 8 which establishes communication between the chamber 2 and the atmosphere or interior of the skirt or band 3 in the normal condition of the device. In other words, the chamber 2 is, by means of this annular opening 8, normally open at one side to the atmosphere but it is to be understood that the word "normal" is used in a comparative or relative sense. That is to say, it is meant to qualify the device when it is in its ordinary condition unapplied to the receiver or ear piece. When the device is applied to the receiver or ear piece, the latter will abut against the ribs 6 and 7 and close up the opening 8 whereby the rim 1 will be pneumatically sealed to all intents and purposes, at least sufficiently to produce a very soft structure which will be comfortable when pressed against one's ear while at the same time there is no true pneumatic cushion formed such as would be liable to easy puncture and the device while made of the ordinary solid molded rubber, will have the desired effect without being formed of the relatively expensive sponge rubber or other highly elastic soft rubber which is difficult to manufacture into articles such as these.

I claim:—

1. As a new article of manufacture, the herein-described ear cushion, comprising a hollow rim portion, provided with means for attaching it to an ear piece, and a disk-like member integrally connected with said rim and having an outer margin which constitutes an outwardly projecting annular rib, the rim being formed with a complementai inwardly projecting annular rib spaced from the first named rib to produce therewith a restricted annular opening, as and for the purpose set forth.

2. As a new article of manufacture, the herein-described ear cushion formed of solid rubber and comprising a circular rim portion provided with an annular chamber, an instrument-encircling band integrally connected with said rim, a disk-like member also integrally connected with said rim within said band, the outer margin of the disk-like member constituting an outwardly projecting annular rib and the rim being formed with a complemental inwardly projecting annular rib in transverse registry with the first named rib and spaced therefrom to produce a restricted annular opening establishing communication between the chamber and the rim and the interior of the band as and for the purpose set forth.

In testimony whereof I hereunto affix my signature.

SAUL SCHULHOFF.