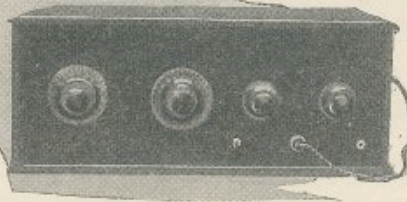
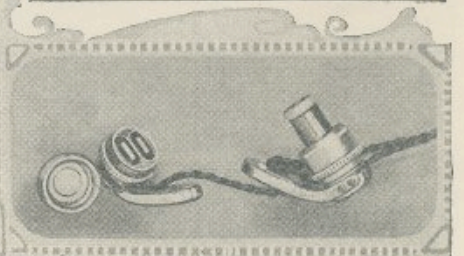
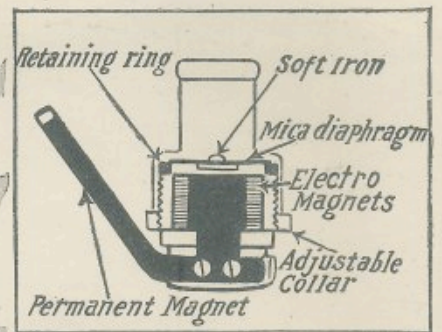


## Receivers That Fit the Ears

THOSE who, due to difficulty in hearing, operate radio receiving sets requiring the use of headphones, usually find that the wearing of these phones becomes quite a burden, after having used them for several hours at a stretch. Particularly is this true in warm weather, when excessive perspiration at the ears is present, caused by the phones covering them. Then too, if the phones are very heavy, they are an unpleasant weight on the head, and unless the headband is properly adjusted, the receivers are liable to press against the ears causing distress. The tiny receiver that is illustrated at the right has recently been designed and placed on the market and is said to overcome practically all of the difficulties found with standard size phones. These new midget reproducers are said to be quite efficient and to give faithful tonal qualities to all sounds. They are so light in weight and small in size, that they can be placed directly in the outer ear channel, and they will stay there without any retaining band or clamp of any kind. One of our illustrations shows these receivers in use and how they are placed in the ears. The other pictures show the various essential parts. Standard receiver design practice has been followed in miniature.

These small phones are made with a double pole electro-magnet and utilize a mica diaphragm with a soft iron armature. In this way, the best possible reproduction of sound is obtained with the least distortion.



Above: The details of this new miniature receiver. The retaining ring is of soft rubber and the clearance between the soft iron armature and the pole-pieces is adjustable by means of the collar shown. These phones can be furnished in both high and low resistances for different types of work. The photograph at the left above shows the device in actual use, being employed in connection with a radio receiving set.