Dec. 23, 1924. 1,520,466

O. E. COTE

TELEPHONE HEADSET

Filed March 8, 1924

Fig. 1.

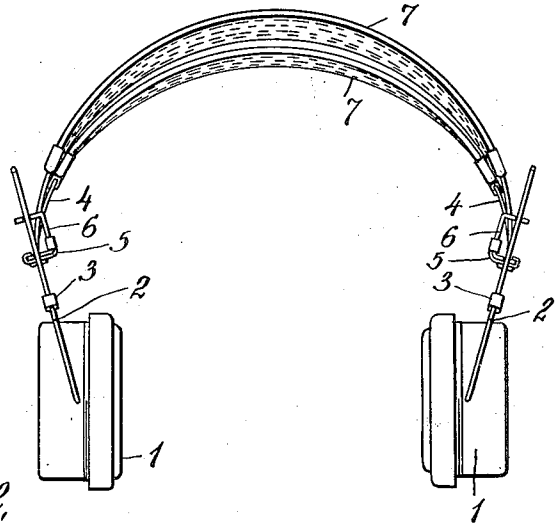


Fig. 2.

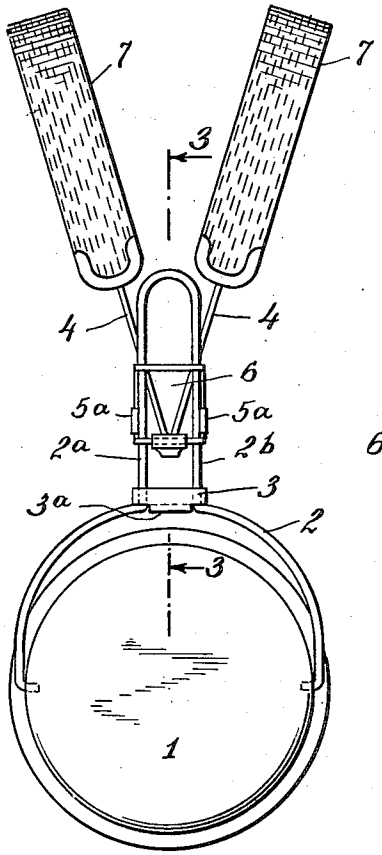


Fig. 3.

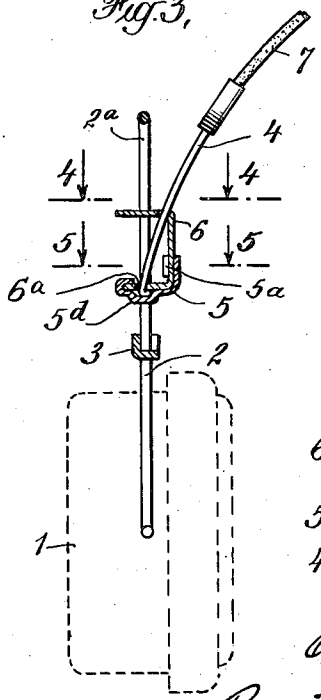


Fig. 4.

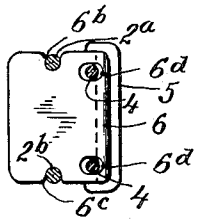
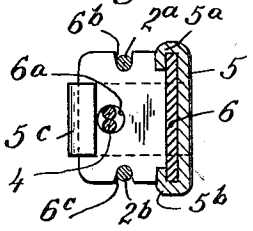


Fig. 5



INVENTOR

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1,520,466

UNITED STATES PATENT OFFICE.

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TELEPHONE HEADSET.

Application filed March 8, 1924. Serial No. 697,717.

To all whom it may concern:

Be it known that I, OMER E. COTE, a citizen of the United States, residing at Pawtucket, in the county of Providence, State of Rhode Island, have invented certain new and useful Improvements in Telephone Headsets; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to telephone headsets, and has for its object to provide a telephone head-band structure of simplified form which can be manufactured at low cost without sacrificing any of the desirable characteristics of more costly products of the same class.

To this end, the invention according to the preferred embodiment, contemplates a head-band structure wherein all the component parts, with the exception of the fabric padding, are of punched or formed metal—that is, bent wire and sheet metal punchings—there being no machined parts employed. Not only are the several parts of this structure capable of being manufactured at very low cost, but they are so designed and co-related that the assembling operations are very simple and capable of being economically performed by unskilled labor.

A clear understanding of the invention may be had from the following detailed description, in conjunction with the accompanying drawing, in which—

Figure 1 is a side elevational view of a telephone headset, including a head-band in accordance with this invention.

Figure 2 is an enlarged elevational view taken at right angles to Figure 1.

Figure 3 is a cross-sectional view taken along the line 3—3, of Figure 2.

Figures 4 and 5 are cross-sectional views taken along the lines 4—4 and 5—5 respectively, of Figure 3.

The telephone headset illustrated comprises a pair of watch case telephone receivers 1—1, each of which is pivotally supported by a yoke 2, consisting of a single piece of wire bent in the form shown. The parallel sides 2^a and 2^b of each yoke are held in proper spaced relations by means of a small metal punching 3. This punching has two arms each of which is bent to at least partially encircle one of the parallel side portions of the yoke 2^a and 2^b, thereby preventing the yoke from being spread apart. The punching 3 is also formed with an integral tail-piece 3^a which is interposed between the two parallel sides of the yoke and functions to prevent these sides being moved toward each other from the normal spaced relation illustrated.

The head-band proper consists of two arcuate pieces of wire 4—4, having the necessary resiliency and rigidity. The yokes are each connected to the head-band proper by means of a connecting device, comprising two formed metal punchings 5 and 6. These two punchings are connected together by means of bent-over arms 5^a, 5^b and 5^c, which are integral parts of the punching 5. The method of joining together and the relation of these two punchings is most clearly illustrated in Figs. 3 and 5. Punching 6 is provided with an aperture 6^a, through which one end of each of the wires 4—4 projects into a recess formed in the punching 5. The ends of the wire 4—4 are bent over as shown in Figure 3 before the two punchings are assembled together. The wires are thereby prevented from being withdrawn.

The metal punching 6 is U-shaped and each leg is provided with two notches 6^b and 6^c. The parallel sides, 2^a and 2^b of the yoke 2 are slidably seated in these notches and the yokes are adjustable up and down therein. This provides for adjusting the receivers to the ears of the wearer. The upper leg of each of the U-shaped metal punchings 6 is provided with two apertures 6^d, through which the head-band wires 4—4 extend. These apertures serve to retain the head-band wires 4—4 in proper spaced relations, one to the other. Each of the head-band wires 4—4 is provided with a tubular fabric padding 7—7 of conventional form.

It will be observed that the entire head-band structure herein described is composed of bent, formed or pressed metal parts, there being no screws, rivets or machine parts in the entire structure. Each of the parts is economical to manufacture and the assembling operations are simple and inexpensive.

Although the structure herein described represents the preferred embodiment of the invention, it should not be inferred that the scope of the invention is in any sense limited to that particular embodiment. The structure may, in fact, be considerably modified within the spirit and scope of the invention as defined by the sub-joined claims.

I claim—

1. In a telephone headset, a head-band comprising a supporting member adapted to be worn on the head of the user, a yoke comprising a continuous piece of wire, the ends of said wire being opposed and adapted to pivotally engage a telephone receiver, said yoke having two substantially straight parallel side portions and a device for adjustably inter-connecting said supporting member and yoke, said device comprising a U-shaped metal punching, each of the legs of said U-shaped punching having notches in which the parallel side portions of said yoke are slidably seated.

2. In a telephone headset, a head-band comprising a supporting member, said supporting member being made of wire, a connecting device comprising a U-shaped metal punching and a second metal punching having integral projections embracing said U-shaped punching, said U-shaped punching having apertures through which said wire extends, said second punching having a recess in which the end of said wire is seated, said wire being securely connected to said connecting device by virtue of the conjoint relation of said punchings and a yoke adapted to pivotally support a telephone receiver, said yoke being slidably supported on said connecting device.

In testimony whereof I affix my signature.

OMER EUGENE COTE.