

Sept. 8, 1925.

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H. P. CHILDRESS

SUPPORT FOR RADIO OR TELEPHONE HEAD SETS

Filed Aug. 17, 1923

2 Sheets-Sheet 1

Fig. 1.

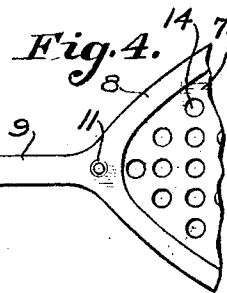
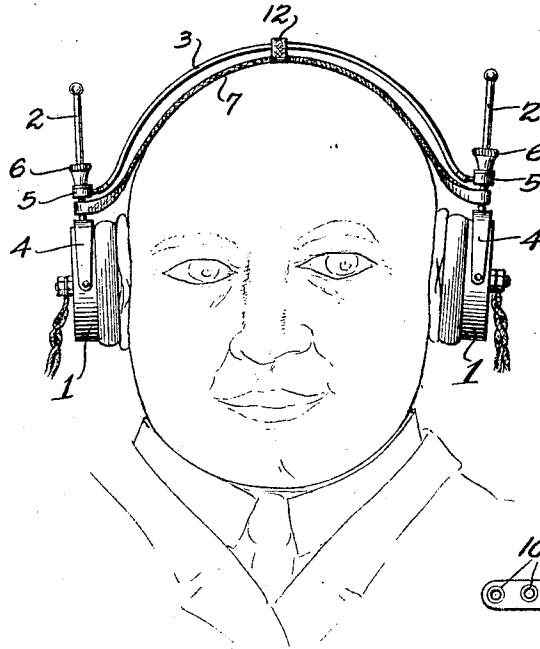
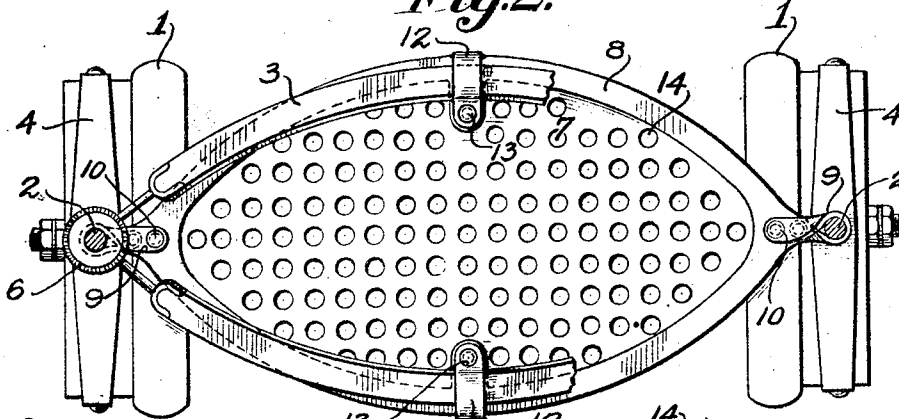


Fig. 2.



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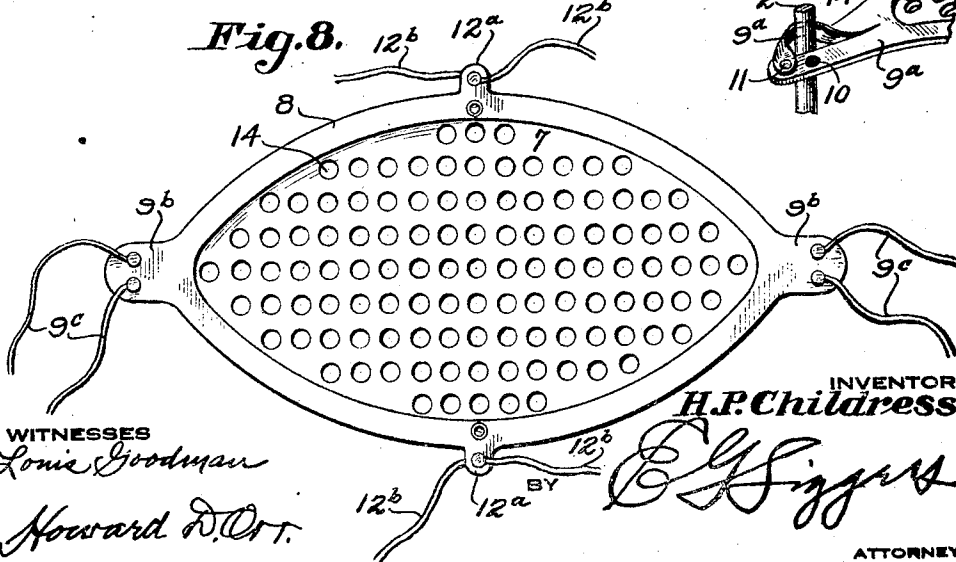
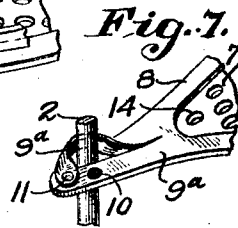
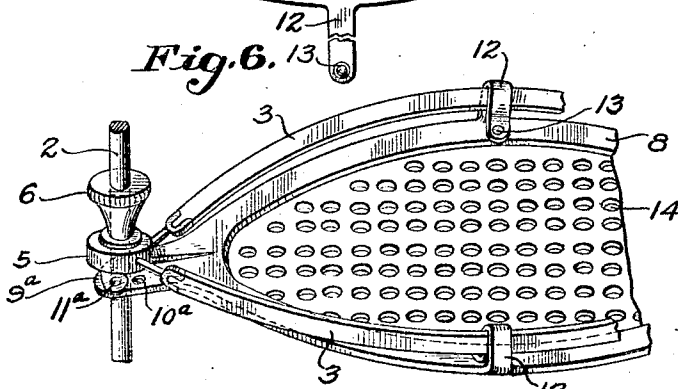
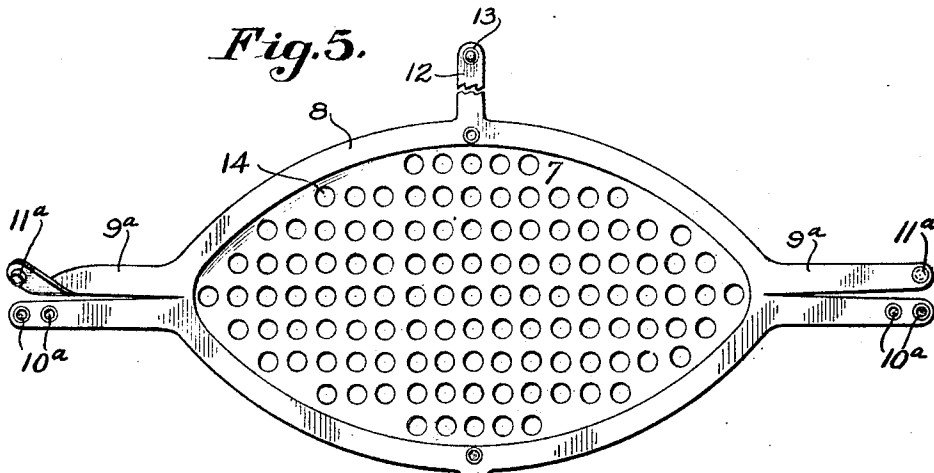
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# UNITED STATES PATENT OFFICE.

HENDERSON PIERCE CHILDRESS, OF MEMPHIS, TENNESSEE.

SUPPORT FOR RADIO OR TELEPHONE HEAD SETS.

Application filed August 17, 1923. Serial No. 657,893.

*To all whom it may concern:*

Be it known that I, HENDERSON P. CHILDRESS, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented a new and useful Support for Radio or Telephone Head Sets, of which the following is a specification.

This invention relates to supports for radio or telephone head-sets.

The object is to provide a device which may be readily applied to ordinary radio or telephone head sets for the purpose of supporting the head bands thereof above and in spaced relation to the top of the wearer's head to relieve the pressure thereon which ordinarily becomes more or less painful, in continued use of the head set, especially to people with scant hair or bald heads.

Another object is to provide a supporting device of this character which is strong and durable, which may be easily and quickly removed from the head-set for the purpose of washing and cleansing the same, and which is flexible and soft to conform to the shape of the head without undue pressure at any point, and is provided with ventilating means to allow of the passage of air to prevent heating the head of the wearer.

A final object is to provide simple means for attachment or detachment of the support, both at its ends and at intermediate points to prevent displacement of the same with relation to the head-set, and to insure its proper location upon the head, said end attaching means being preferably adjustable so as to properly fit the support to heads of different shapes and sizes.

A full and complete understanding of the invention may be obtained from a consideration of the following detailed description, taken in connection with the accompanying drawings forming a part of this specification; it being understood that while the drawings show practical forms of the invention, the latter is not to be confined to strict conformity with the showing thereof, but may be changed or modified, so long as such changes or modifications mark no material departure from the salient features of the invention, as specifically pointed out in the appended claims.

In the drawings, in which similar reference characters designate corresponding parts throughout the several figures:—

Figure 1 is a front elevation of an ordi-

nary head-set in position on the head of a wearer and having the improved support applied thereto.

Figure 2 is a plan view, on an enlarged scale, of the head-set, with the support secured to the same.

Figure 3 is a longitudinal sectional view through the improved support.

Figure 4 is a detail of one end of the device, prior to attachment.

Figure 5 is a plan view of a slightly modified form of the device.

Figure 6 is a detail perspective view illustrating the manner of attaching said form to the head-set.

Figure 7 is a detail view further illustrating the same.

Figure 8 is a plan view of still another modified form of the device.

Referring to the drawings, there is illustrated in Figure 1, an ordinary radio or telephone head set including receivers 1, supporting and adjusting posts 2 for the same, and head bands 3 which are spaced apart, as shown in Figure 2 of the drawings, and are ordinarily poorly designed to support the receivers in adjusted position with relation to each other, and to support the entire device by resting upon the head of the wearer. The constant use of the head-set thus causes a pressure upon the sensitive upper part of the head which soon becomes painful and almost unbearable, necessitating frequent removal or shifting of the device. The present invention is designed to be applied to the head-set, to be adjusted to the head, and to remain attached to the set, unless removed for cleansing, and to relieve such pressure by supporting the entire device.

The posts 2 are provided, at their lower ends, with yokes 4 straddling the receivers 1 and pivoted thereto to permit the same to rock for fitting against the ears and closing the same to outside interfering noises. The head bands 3 comprise relatively broad, flat intermediate portions formed of soft, padding material, and confining springs whose ends project therefrom and converge at the ends, where they are connected to collars 5, having split projections surrounding the posts and suitably threaded for the reception of binding screws 6, for the purpose of holding the collars and the head bands in any desired adjustment upon the posts 2, all of which, as heretofore described,

being of ordinary construction to be found in head sets now upon the market.

The invention comprises an elliptical sheet 7 preferably formed of thin rubber and having a length to extend across the upper portion of the head between the head bands. The width of the said sheet substantially conforms to the distance between the said head bands 3, and it is to be understood that the shape of the sheet may be other than elliptical, and the length and breadth differ as well as the kind of material, for leather may be employed or some kind of woven fabric used in manufacturing the device which will give results substantially as good as rubber.

The margins of the sheet 7 are provided with reinforcing strips 8 secured to the upper face thereof, as by bending back the rubber and vulcanizing the same, as in the case of rubber, or by stitching on a separate strip in the case of fabric or leather, the said reinforcement extending entirely around the margins of the sheet as shown in all the forms illustrated in the drawings.

At the ends of the sheet there are formed longitudinally aligned tongues or tabs 9 located centrally thereof and of a thickness equal to the reinforced margins 8, there being, in the preferred form, one tongue at each end, as shown in Figures 1 to 4 inclusive. The tabs 9 are each provided, near their outer ends with a plurality of snap-fastener sockets 10 and at their bases where joined to the reinforcing strips 8, a snap-fastener pin 11 is secured (see Figure 4).

At central points along the long sides of the elliptical sheet, outstanding tabs 12 are formed by extending the reinforced strips at this point, and said tabs are provided with snap fasteners 13, all of said snap fasteners being of ordinary construction.

The body of the sheet 7, within the strips 8, is provided with a plurality of apertures 14 for permitting the air to pass through for keeping the head of the wearer cool.

As clearly illustrated, the device is secured to the head set by passing the end tabs 9 around the posts 2 of the head set and below the collars 5, and then securing the pin 11 in the proper socket 10 to fit the head of the wearer and to support the head set with the bands 3 spaced above the rubber sheet 7, as shown in Figure 1. The side tabs 12 are then fastened around the bands and held by the fasteners 13 to prevent the support from moving towards the front or the back of the head.

In Figure 5 there is illustrated a slightly modified form of the invention, wherein two end tabs 9<sup>a</sup> are employed, arranged in parallel relation and close to each other, one tab having one or more snap-fastener sockets 10<sup>a</sup> and the other adjacent tab having a snap-fastener pin 11<sup>a</sup>, the two tabs being

adapted to be passed partly around the posts 2 of the head set and secured together by the fasteners. The remainder of this form is substantially the same as the first described form of the invention.

In Figure 8 there is shown a further modified form wherein the end tabs 9<sup>b</sup> are somewhat shorter and are adapted to carry a pair of short strands or strings 9<sup>c</sup> for tying the device at the ends to the posts of the head-set, while the side tabs 12<sup>a</sup>, which are also somewhat shorter, are equipped with a pair of strings 12<sup>b</sup> for securing the sides of the support to the head rings as before.

From the foregoing it will be seen that a simple and cheaply manufactured device has been provided for supporting head sets above the head of the wearer, and that the same may be easily applied in position thereon and adjusted to suit the head and removed for cleansing, and that the device will not cause the head to become hot by reason of the ventilating apertures.

What is claimed is:

1. In combination with a radio or telephone head-set including receivers, supporting posts and head bands, an elongated strip of flexible material adapted to be stretched beneath the space between the head bands, and means at the ends of said strip to connect the same to said posts, the effective length of the strip between the connecting means being less than the length of the bands between those points, so that the strip will rest upon the head of the wearer beneath the bands and maintain the latter in spaced relation to the strip, thereby relieving the pressure of said bands upon the head.

2. In combination with a radio or telephone head set including receivers, supporting posts and head bands, an elongated strip of flexible material extending across the space between the head bands, and means for so connecting the ends of said strip to the posts that the strip will rest upon the head of the wearer and maintain the bands above and in spaced relation to said strip, so as to prevent pressure of the bands upon the head.

3. In combination with a radio or telephone head-set including receivers, supporting posts and head bands, an elongated strip of flexible material adapted to be stretched across the space between the head bands and perforated to provide ventilation, and means at the ends of said strip for connecting the same to the posts, the effective length of the strip being such that the bands will be supported in spaced relation above the same, said strip having a marginal reinforcement which is attached to intermediate portions of the bands.

4. A support for radio or telephone head-sets, comprising an elongated strip of flex-

ible material having ventilating openings therethrough, and means for connecting the ends of said strip to the posts of the head-set receivers in such a manner that the head set will be supported with the head band spaced above said strip, thereby preventing the bands from pressing against the head.

5 5. A support for radio or telephone head sets, comprising a strip of soft flexible material substantially elliptical in shape and provided with ventilating openings, means for connecting the ends of said strip to the post of the head set receivers beneath and in spaced relation to the head band, the effective length of said strip being such that the head band will be supported above and in spaced relation to the strip when the latter is resting upon the head of the wearer, and means for securing the intermediate portions of the sides of said strip to the head bands.

10 6. A support for radio or telephone head-sets, comprising a strip of soft flexible material having snap fasteners at its ends engageable around the receiver posts of the head-set beneath the extremities of the head bands, the effective length of the strip between said fasteners being such that the band will be supported in spaced relation above said strip when the latter rests upon the head of the wearer.

15 7. A support for radio or telephone head-sets, comprising a substantially elliptical shaped strip of soft rubber, longitudinally disposed tabs extending from each end of said sheet and having snap-fasteners and adapted to be fastened around the receiver posts of the head-set, and transversely dis-

posed tabs extending from intermediate points of the side edges of the strip and having snap fasteners secured thereto and adapted to be fastened to the head bands of the head-set to hold the support in position on the head of the wearer.

20 8. A support for radio or telephone head-sets, comprising a substantially elliptical shaped strip of soft rubber provided with ventilating openings throughout its area, longitudinally disposed tabs extending from each end of said sheet and having snap fasteners and adapted to be fastened around the receiver posts of the head-set, transversely disposed tabs extending from intermediate points of the side edges of the strip and having snap-fasteners secured thereto and adapted to be fastened to the head bands of the head-set to hold the support in position on the head of the wearer, and a thickened marginal reenforcement around the said strip to re-inforce the same.

25 9. A radio or telephone head-set support, comprising a sheet of rubber having ventilating openings and adapted to rest upon the head of the wearer, transverse tabs having snap fasteners for securing the intermediate portions of the support to the head bands above the same, and longitudinally disposed tabs for securing the ends of the sheet to the receiver-posts and having a snap fastener stud and a plurality of longitudinally alined sockets therefor to adjust the length of the sheet for different heads.

30 In testimony, that I claim the foregoing as my own, I have hereto affixed my signature.

35 HENDERSON PIERCE CHILDRESS.