H. GERNSBACK.

TELEPHONE HEADBAND.

APPLICATION FILED APR. 21, 1917.

1,329,658.

Patented Feb. 3, 1920.

Fig. 1.

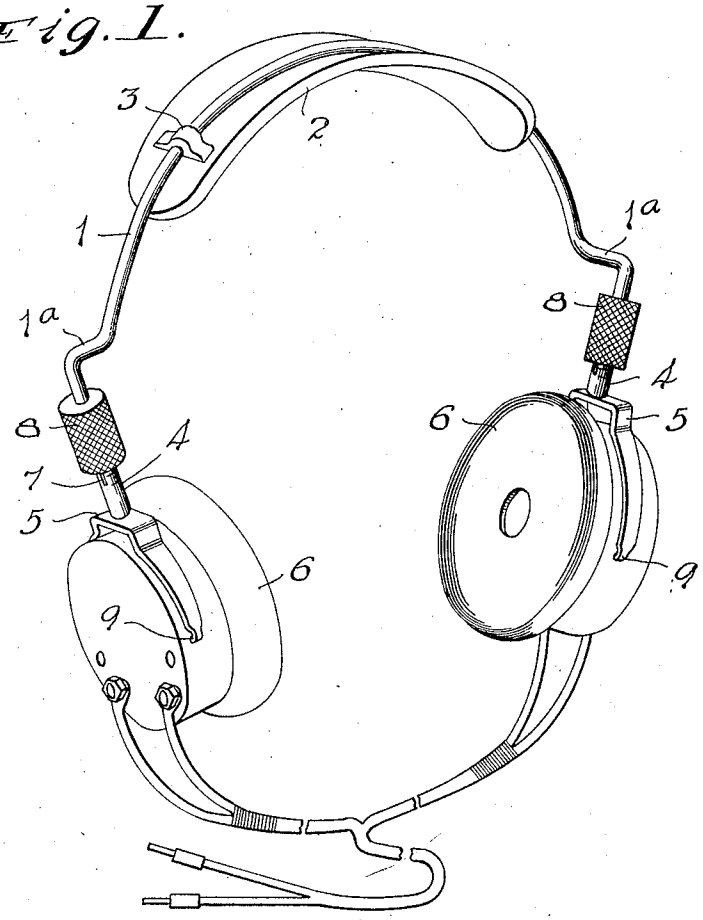


Fig. 2.

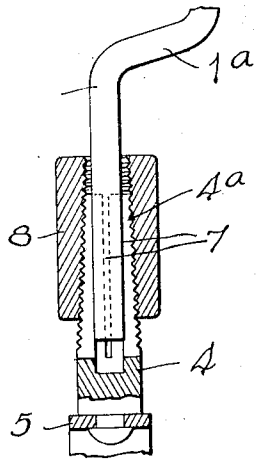
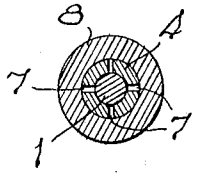


Fig. 3.



Inventor

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UNITED STATES PATENT OFFICE.

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TELEPHONE-HEADBAND.

1,329,658. Specification of Letters Patent. Patented Feb. 3, 1920.

Application filed April 21, 1917. Serial No. 163,635.

To all whom it may concern:

Be it known that I, HUGO GERNSBACK, a citizen of the United States, residing at New York, in the county of New York, State of New York, have invented a new and useful Telephone-Headband; 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.

The present invention relates to a simplified style of headband which is designed to replace the old style double spring headband, and which embodies novel features of construction whereby it can be easily and quickly adjusted to fit the head with accuracy, and can be worn without any discomfort.

Further objects of the invention are to provide a telephone headband which will hold the receivers to the ears perfectly and exclude all outside noises, which is light in weight and will not catch in the hair, which is simple and inexpensive in its construction, and which prevents any metal from touching the head, thereby avoiding shocks and leakage.

With these and other objects in view, the invention consists in certain novel combinations and arrangements of the parts as will more fully appear as the description proceeds, the novel features thereof being pointed out in the appended claims.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawing, in which:—

Figure 1 is a perspective view of a telephone headband constructed in accordance with the invention.

Fig. 2 is an enlarged sectional view through the compression chuck at one end of the headband.

Fig. 3 is a horizontal sectional view through the same.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Specifically describing the present embodiment of the invention, the numeral 1 designates an arched strip of resilient wire which is suitably curved to fit over the top of the head in the usual manner. This wire strip 1 is round in cross section, and the downwardly extending ends thereof are offset outwardly at 1^a. The use of round wire simplifies the construction and decreases the cost of manufacture. A pad 2 of some soft flexible material such as soft rubber is applied to the top of the headband 1, being adapted to be interposed between the headband and the head of the wearer. This pad 2 is shown as having a substantially elliptical shape, and is preferably of uniform thickness, being secured to the headband 1 by means of a pair of transverse strips or keepers 3 which extend across the top of the pad at points near the ends thereof and receive the wire headband. This soft pliable pad will readily conform to the shape of the head, and not only enables the headband to be worn without discomfort, but also prevents any metal from touching the top of the head.

The downwardly extending ends of the arched headband 1 are received within tubular stems 4 which project upwardly from, and are rigidly secured to spring yokes 5 which support the receivers 6. The tubular stems 4 are movable up and down upon the ends of the headband 1 to raise or lower the receivers, and are also rotatable upon the ends of the headband to admit of the receivers being set at the proper angle for accurately engaging the ears of the particular wearer. The upper ends of the tubular stems 4 are split, as indicated at 7, and threaded at 4^a for engagement with the compression chucks 8. The threaded openings through the chucks 8 are tapered and flared downwardly, so that when the chucks are screwed upwardly on the tubular stems 4, the latter can be rotated upon the ends of the headband and moved up and down thereon, although when the chucks are screwed downwardly upon the tubular stems the split ends 7 thereof are forced tightly against the ends of the headband and the said stems clamped rigidly in position. This construction enables the receivers to be moved up and down and turned to the proper angle for fitting the head of the particular wearer, and no screws or winged nuts are necessary. The compression chucks 8 present a comparatively smooth and uniform surface, so that no projections or points, such as are incident to the use of wing nuts or screws, are present to catch in the hair or adjacent objects.

The yokes 5 are shown as provided with inwardly extending fingers 9 which pivot-

ally engage diametrically opposite openings in the sides of the receivers 5, thereby leaving the receivers free to turn about a horizontal axis and fit themselves properly to the ears of the wearer. This headband will not catch and tear the hair, as all double headbands do, and it can be worn with the utmost comfort, since the soft rubber pad 2 prevents the wire headband from coming into contact with the head, and prevents the single round wire from slipping on the head. The rubber pad also provides a large bearing surface upon the top of the head and thus makes the headband practically as secure on the head as the double headbands in common use. The headband is practically invisible when in position upon the head, and is not clumsy and unsightly, as are the complicated and cumbersome double headbands.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A device of the character described, including an arched resilient head band formed of a single strip of metal and having ends which are round in cross section, tubular stems slidable and rotatable upon the said ends so that they can be adjusted longitudinally and rotated into different angular positions, tubular chuck members fitted upon the tubular stems for clamping them in an adjusted position, and receiver supporting means carried by the stems.

2. A device of the character described, including an arched resilient head band formed of a single strip of metal and having ends which are round in cross section, tubular stems slidably and rotatably receiving the ends of the head band and having a tapered formation, receiver supporting means carried by the stems, said stems being slidable and rotatable to adjust the positions of the receivers, and tubular chuck members applied to the tapered stems for clamping them in adjusted positions upon the ends of the head band.

3. A device of the character described, including an arched resilient head band formed of a single strip of metal and having ends which are round in cross section, tubular stems slidably and rotatably receiving the ends of the head band, said stems being tapered and split longitudinally, receiver supporting means carried by the stems, said stems being slidable longitudinally upon the ends of the head band and rotatable thereon to adjust the position of the receivers, and tubular compression chucks formed with tapered openings which are threaded upon the split ends of the tubular stems to clamp the tubular stems in an adjusted position.

4. A device of the character described, including an arched resilient head band formed of a single strip of metal and having ends which are round in cross section, tubular stems fitted upon the ends of the head band and slidable and rotatable thereon, receiver supporting yokes rigidly secured at their middle portions to the ends of the tubular stems, the sliding and rotary movements of the tubular stems enabling the receivers to be adjusted on the head band, and tubular compression chucks threaded upon the tubular stems for clamping them in an adjusted position upon the head band.

5. A telephone headband including an arched resilient frame formed of a single length of wire which is round in cross section, tubular stems slidably and rotatably fitted upon the ends of the arched frame, said stems being tapered and split longitudinally and being slidable longitudinally upon the ends of the frame and rotatable thereon to adjust the position thereof, tubular compression chucks formed with tapered openings which are threaded upon the split ends of the tubular stems to clamp the said stems in an adjusted position, receiver supporting yokes rigidly secured at their middle portions to the ends of the tubular stems, and receivers carried by the yokes.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HUGO GERNSBACK.

Witnesses:
S. GERNSBACK,
ERNA PIKE.