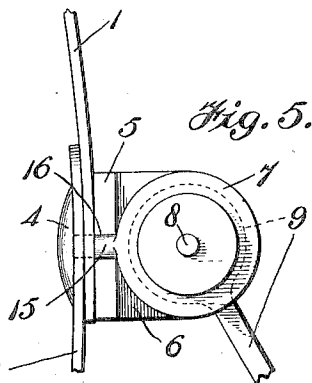
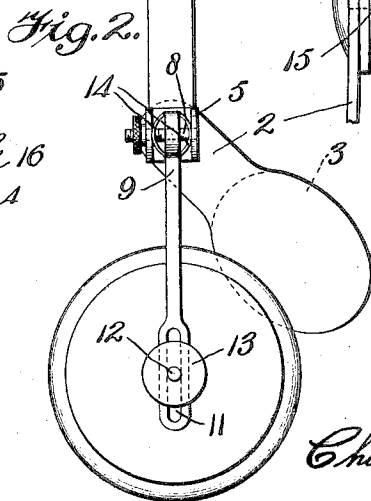
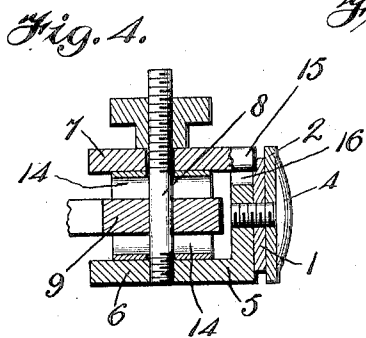
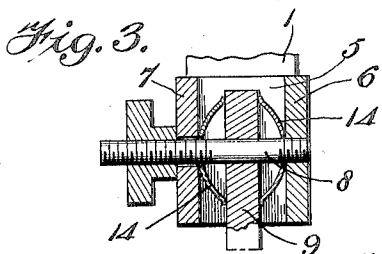
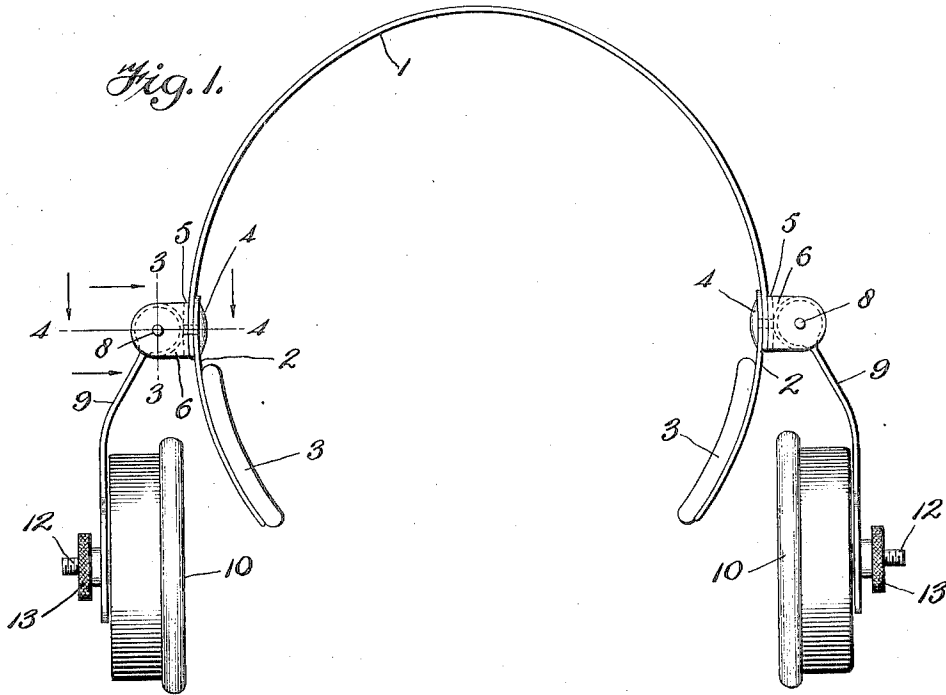


C. ADAMS-RANDALL.
 HEAD SUPPORT FOR TELEPHONE RECEIVERS.
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1,087,704.

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HEAD-SUPPORT FOR TELEPHONE-RECEIVERS.

1,087,704.

Specification of Letters Patent.

Patented Feb. 17, 1914.

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To all whom it may concern:

Be it known that I, CHARLES ADAMS-RANDALL, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Head-Supports for Telephone-Receivers, of which the following is a specification.

The present invention relates to improvements in supports and more particularly to head supports for telephone receivers, whereby the telephone receivers may be conveniently held upon the head of the operator.

Head supports for telephone receivers have been provided with a head band having the receivers non-adjustably secured thereto, thereby the receivers are held upon the head of the operator by a constant and considerable pressure against either or both ears of the operator. This constant pressure is most annoying, irritating and very injurious. There are also other serious objections to such head supports which are well known to telephone operators at exchanges, to train despatchers and others skilled within this art.

It is the object of this invention to overcome these serious objections and defects, by providing a head support which may be easily and readily applied or removed from the head of the operator, with simple and convenient means for adjustably supporting the telephone receivers, so that the latter may be adjusted to and from the head of the operator to any desired position for hearing and without contacting the ears of the operator.

A further object of the invention is to provide means for adjustably supporting the telephone receivers upon a head support whereby the receivers may be easily and quickly adjusted and frictionally retained in the adjusted position.

With the above and other objects in view the invention consists of the novel features of construction, combination, formation, and arrangement of parts as will be hereinafter more fully described and particularly pointed out in the appended claims.

In the accompanying drawing has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that the right is reserved to any changes,

alterations and modifications to which recourse may be had within the scope of the invention and without departing from the spirit or sacrificing the efficiency of the same.

The invention will be best understood by reference being had to the accompanying drawings taken in connection with the following detailed description forming part of the specification in which:—

Figure 1, is a rear elevation embodying my invention. Fig. 2, is a side elevation of the same. Fig. 3, is a vertical detail section taken on the line 3—3 of Fig. 1. Fig. 4, is a detail horizontal sectional view taken on the line 4—4 of Fig. 1, and Fig. 5, is a detail front elevation.

Reference now being had to the drawing wherein like and corresponding parts are designated by like reference characters throughout the several views the numeral 1 indicates the head band of an ordinary head support for telephone receivers being made of suitable resilient material. Pivotaly secured to the extremities of the head band are angularly extending members or wings 2 which are adapted to rest upon the head behind the ears of the operator, to help to hold the head band in place. These angular extensions may be of any desired shape and may be adjusted to suit the wearer. The inner faces of the said extensions are also provided with soft or yielding cushions or pads 3.

Secured to the outer face of the extremities of the head band by means of flat headed screws 4 are L-shaped bearing supports 5. These supports each comprise a plate having formed at right angles thereto a stationary bearing 6 and the opposite end of the said plate is provided with a detachable and adjustable bearing 7. Mounted within the said bearings 6 and 7 are stationary shafts 8 each having pivotally connected thereto an arm or lever 9 and the latter each having adjustably secured thereto suitable telephone receivers 10. The free ends of the said levers 9 have formed therein vertical elongated slots 11 through which extends the threaded pins 12 carried by the receivers 10. Check nuts 13 are provided upon the threaded pins 12 whereby the receivers may be held in the desired vertical adjusted position in front of the ears of the operator.

To provide means for frictionally hold-

ing the arms 9 to and from the ears of the operator washers 14 made of suitable resilient material are mounted on the shafts 8 between the bearings 6 and 7 and the arms 9. The inner faces of these washers are concaved so that when the movable bearings 6 are adjusted upon the shafts 8 by the check nuts 14 the washers will bear against each side of the arms 9 thereby frictionally holding the latter in the adjusted position.

The movable bearings 6 are prevented from turning with the arms 9 by means of a suitable lug and slot connection. The preferred form of the lug and slot connection is by providing each of the movable bearings 6 with a lug extension 15 which is adapted to operate within horizontal slots 16 formed within one end of the plates of the bearing supports 5.

It is obvious from the foregoing that by adjusting the movable bearings 6 the washers will yieldingly hold the arms 9 in the adjusted position, with proper pressure and without distortion of parts, thereby permitting the operator to easily and quickly adjust the receivers to hang normally close to the ears without any pressure thereon and may also be moved to and from the head of the operator to any desired position, without removing the head band. This feature of the invention is of great importance and convenience in use, especially when the reproduction at the receiver is of great volume of tone, which is frequently the case when receiving from a nearby station and also when the disturbing noises from induction occur or other annoying and often dangerous noises, all of which may be readily and absolutely overcome by the proper adjustment of the receivers from the head of the operator.

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

1. In a device of the character described the combination with a head band, supports secured thereto, shafts mounted within said supports, levers mounted upon said shafts, spring washers carried by the said shafts on each side of the levers, movable bearings for said shafts and means for moving said

bearings substantially as and for the purpose specified.

2. In a device of the character described the combination with a head band, of angular extensions carried thereby, L-shaped supports, means for securing the supports and extensions to the head band, movable supports, pins carried by the movable supports and adapted to move within slots formed within the L-shaped supports, shafts mounted within the said supports, receivers pivotally connected to the said shafts, spring washers carried by the shafts and means for adjusting the movable bearings for the purpose specified.

3. In a head support for telephone receivers, an elastic head band, means for securing said band upon the head, without pressure upon the ears, a telephone receiver adjustably attached to the head band, and frictional means for automatically holding the receiver tightly against, or in light contact with the ear, or removed the extreme distance possible from the ear.

4. In a head support for telephone receivers, a head band, means for securing said band upon the head, a telephone receiver secured to the head band, and frictional means for regulating the pressure of the receiver upon the ear and for holding the receiver permanently in any desired position.

5. In a head support for telephone receivers, a head band, receiver arms secured to said band, receivers mounted on said arms, and means interposed between said band and said arm for regulating the pressure of the receivers upon the ears.

6. In a head support for telephone receivers, a head band, receiver arms secured to said band, receivers mounted on said arms, and frictional means interposed between said band and said arms for regulating the pressure of the receivers upon the ears.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES ADAMS-RANDALL.

Witnesses:

C. T. RAY,

A. S. CORMIER.