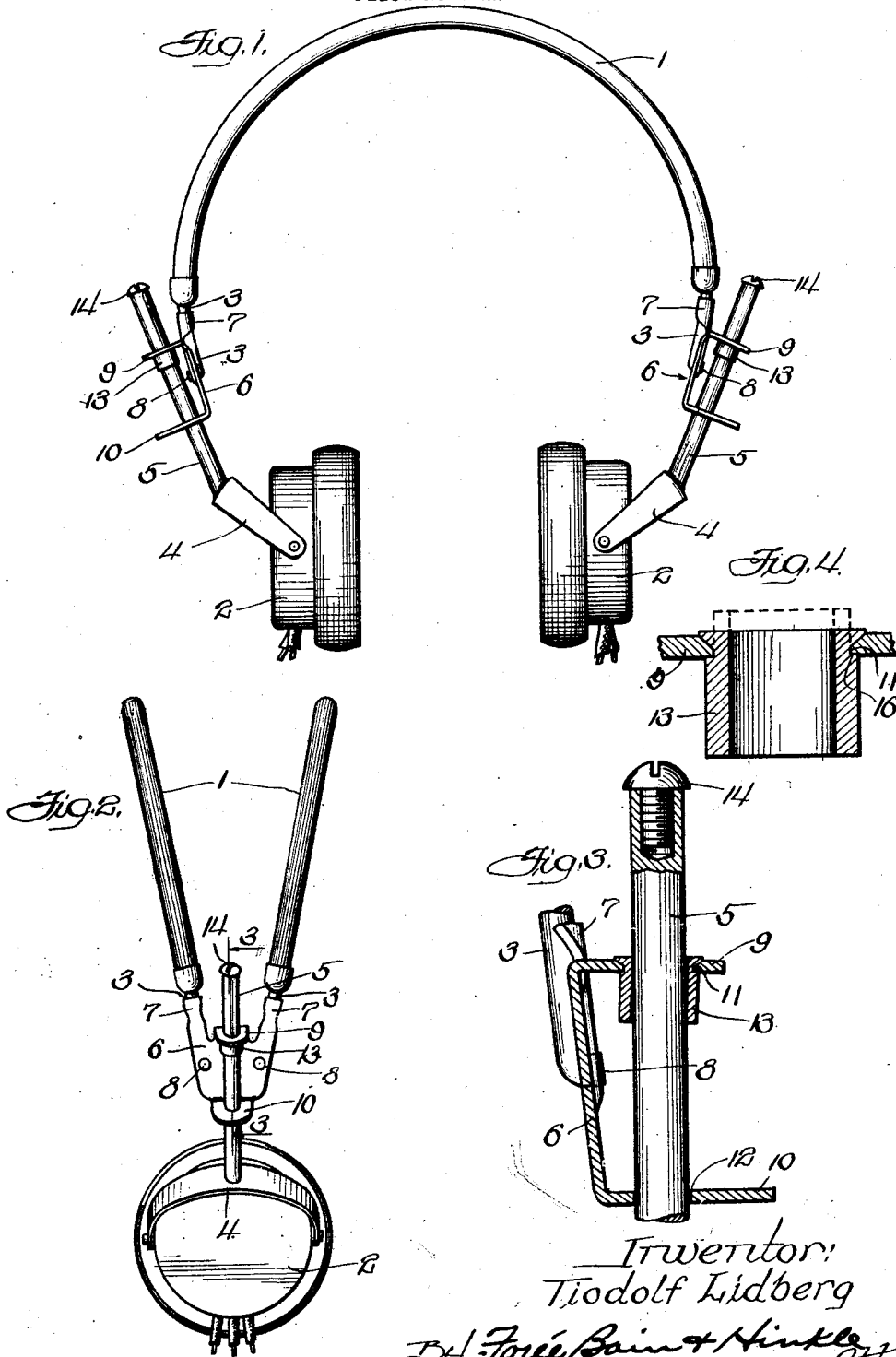


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T. LIDBERG
TELEPHONE HEAD SET
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Inventor:
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Attys

UNITED STATES PATENT OFFICE.

TIODOLF LIDBERG, OF CHICAGO, ILLINOIS, ASSIGNOR TO CHICAGO SURGICAL & ELECTRICAL COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

TELEPHONE HEAD SET.

Application filed November 22, 1922. Serial No. 602,566.

To all whom it may concern:

Be it known that I, TIODOLF LIDBERG, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Telephone Head Sets, of which the following is a specification.

This invention relates to telephone head sets.

It has special application to the adjustment of "watch case" receivers to the ears of users.

One of the objects of the invention is to provide an improved telephone head set.

Another object is to provide an improved adjustment for telephone head sets.

Another object is to provide an improved bracket for adjustably interconnecting a receiver and head band.

Another object is to provide a bracket which, without springs or other complication, will give ready and proper adjustment to a head receiver.

Another object is to provide an adjustable receiver supporting head band which is simple, reliable and inexpensive.

Other objects and advantages will hereinafter appear.

An embodiment of the invention is illustrated in the accompanying drawing, wherein

Fig. 1 is a front elevation of a complete head set equipped with two receivers.

Fig. 2 is an end elevation.

Fig. 3 is an enlarged section on the line 3-3 of Fig. 2, and

Fig. 4 illustrates a method of attaching the friction sleeve in the bracket.

The head set shown has a flexible head band 1 and a pair of "watch case" receivers 2. The receivers may be of any approved type. The head band comprises two spring wire straps 3 which fit over the top of the head of a user and resiliently clamp the two receivers against the ears. These two straps may be encased in a suitable flexible covering if desired.

Each receiver is pivotally mounted between the curved arms of a support 4, which has an adjusting rod 5. The two receivers are connected to opposite ends of the head band by brackets 6 which permit both longitudinal and angular adjustment. The

brackets are alike and only one will be described.

The bracket has two upwardly projecting extensions 7 whose extremities are formed into cylindrical sockets for holding wires 3 of the head band. Below the sockets extensions 7 and the bracket body are formed into shallow channels in which wires 3 lay. The extremities of wires 3 are bent at an abrupt angle to provide hooks 8 which pass through small holes in the body of the bracket and lock the bracket to the head band.

Each bracket has a pair of laterally projecting ears 9 and 10. Ears 9 and 10 have holes 11 and 12 therethrough. A short sleeve 13 is seated in hole 11. The bore of sleeve 13 and hole 12 are very slightly out of alignment and each is of sufficient diameter to allow rod 5 to slide rather freely therethrough. When, however, rod 5 is passed through both the sleeve and hole 12 the slight offset causes the rod to bear on three points or lines as clearly shown in Fig. 3. Two of the areas of contact are on opposite sides of the bore of sleeve 13 near its ends and the third area is against one side of the rim of hole 12. These three areas of contact provide a frictional grip upon rod 5 and yieldingly hold the same in any longitudinally adjusted position. The friction can be made great enough to prevent movement while the receiver is in proper position but to permit ready adjustment. The rod can be readily turned to provide angular adjustment of the receiver so that the same will fit flat against the ear. A small screw 14 threading into the upper end of rod 5 and having its head slightly larger than the rod prevents the removal of the same from the bracket.

The sleeve may be secured to the bracket in a variety of ways. Fig. 4 shows one satisfactory method. The upper end of sleeve 13 is made of slightly reduced diameter affording an annular shoulder 16. The reduced end of sleeve 13 fits rather snugly into holes 11 of ear 9. The upper rim of hole 11 may be slightly enlarged. The reduced end of sleeve 13 is inserted through hole 11 until its shoulder 16 engages the lower surface of ear 9 as shown by the dotted lines of Fig. 4. Then the projecting end of sleeve 13 is riveted or turned over into the en-

largement of hole 11, and ear 9 and sleeve 13 are securely fastened together.

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

1. A telephone head set comprising a head band, a bracket secured to one end of the head band and having a pair of substantially parallel laterally extending perforated ears, the axes of the perforations being slightly out of alignment, a sleeve forming part of one ear of the pair and normally out of axial alignment with the perforation through the other ear, a receiver support having a post which passes through the sleeve and perforations in both ears of the pair and frictionally held in any adjusted longitudinal position by the cooperation of

the sleeve and the rim of the perforation in the sleeveless ear, and a receiver pivotally carried by the support.

2. A bracket for adjustably uniting a telephone head band and a receiver support having a post and comprising a body with two substantially parallel laterally extending ears, the ears having holes therethrough, the axes of which are slightly out of alignment, and a sleeve secured to one of the ears in alignment with the hole therethrough, the bore of the sleeve and the hole through the other ear having a diameter to permit the post to slide therethrough.

In testimony whereof I hereunto subscribe my name.

TIODOLF LIDBERG.