Feb. 23, 1926. 1,573,839

O. M. LEICH

RECEIVER MOUNTING

Filed June 2, 1922 3 Sheets-Sheet 1

Fig. 1.

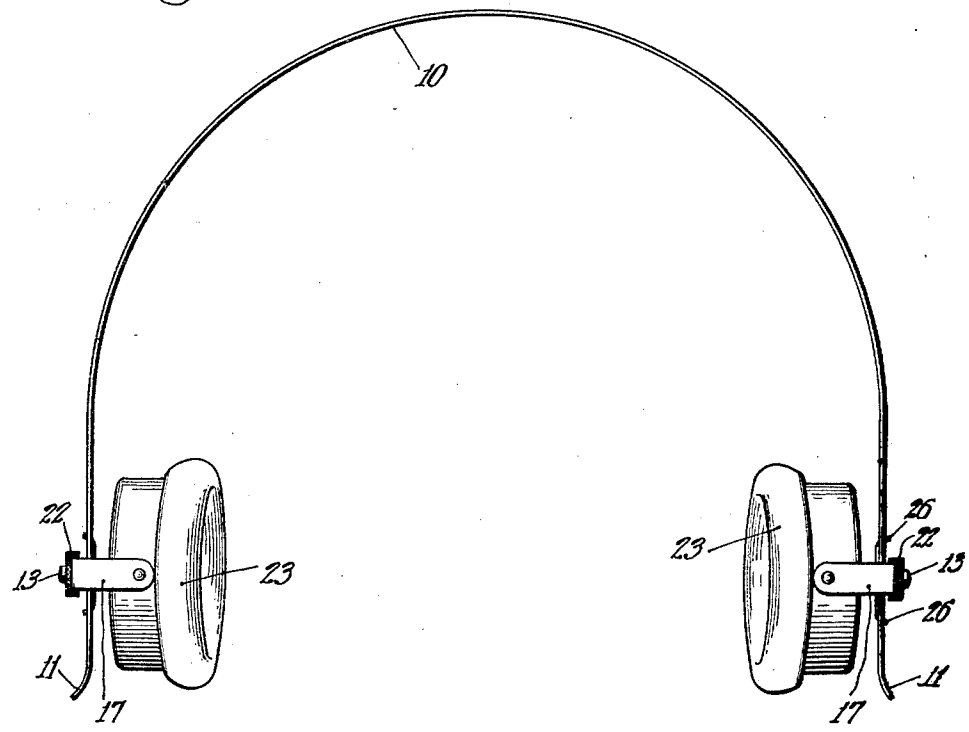
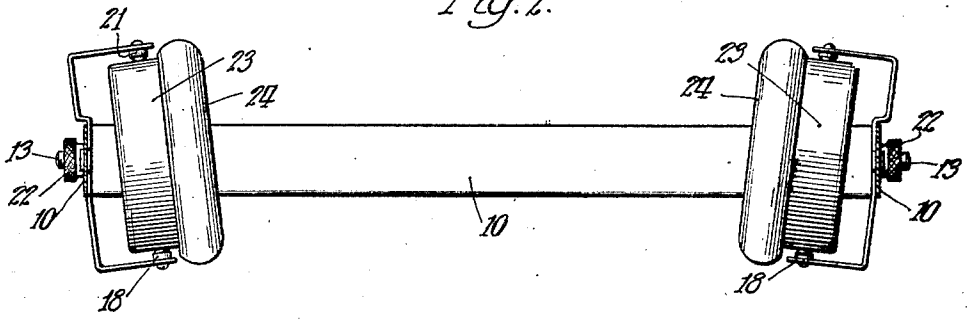


Fig. 2.



Inventor.
Oscar M. Leich.
By: Fabel & Mueller Attys.

Feb. 23, 1926. 1,573,839

O. M. LEICH

RECEIVER MOUNTING

Filed June 2, 1922 3 Sheets-Sheet 2

Fig. 3.

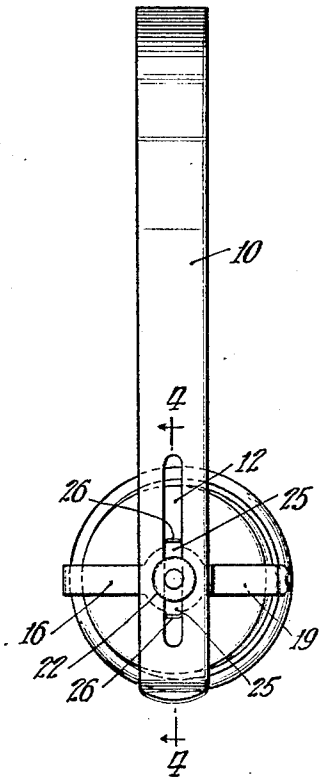


Fig. 4.

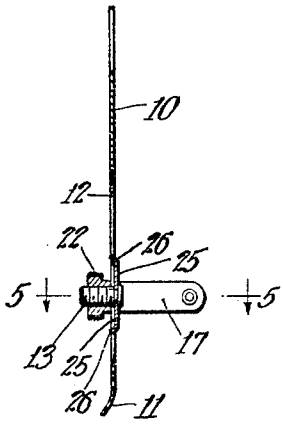


Fig. 5.

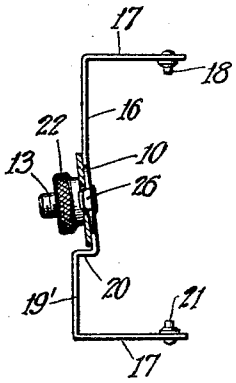
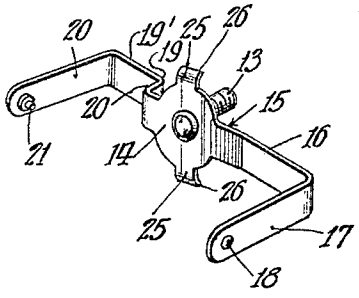


Fig. 6.



Inventor.
Oscar M. Leich.
By: Jabel & Mueller
Attys.

Feb. 23, 1926. 1,573,839

O. M. LEICH

RECEIVER MOUNTING

Filed June 2, 1922 3 Sheets-Sheet 3

Fig. 7.

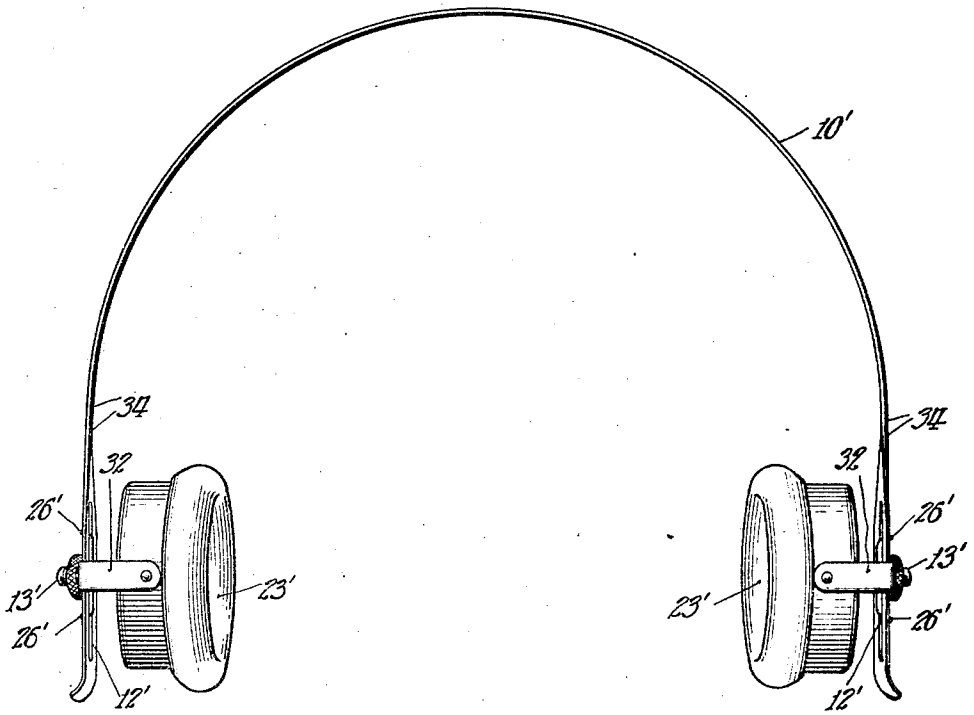
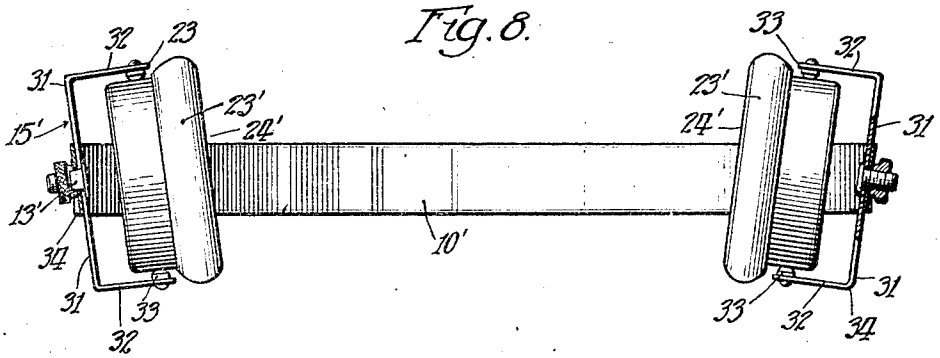


Fig. 8.



Inventor.
Oscar M. Leich.
By: Jakel & Mueller
Attys.

Patented Feb. 23, 1926. 1,573,839

UNITED STATES PATENT OFFICE.

OSCAR M. LEICH, OF GENOA, ILLINOIS, ASSIGNOR TO LEICH ELECTRIC CO., OF GENOA, ILLINOIS, A CORPORATION OF ILLINOIS.

RECEIVER MOUNTING.

Application filed June 2, 1922. Serial No. 565,407.

To all whom it may concern:

Be it known that I, OSCAR M. LEICH, a citizen of the United States, residing at Genoa, in the county of De Kalb and State of Illinois, have invented a certain new and useful Improvement in Receiver Mountings, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to a receiver mounting, and more particularly to means for mounting telephone receivers on head bands so as to provide a convenient and efficient head set for radio use.

It is a purpose of the invention to provide means for supporting telephone receivers adjacent the ears of the user with the face portions thereof adjacent the ear lying in planes that are oblique to each other, whereby a tighter fit of the receivers or ears pieces to the head is obtained. Ordinarily the human head is narrower toward the front thereof than toward the rear thereof, and it has been found that by arranging the receivers so that the faces thereof adjacent the ears extend at an oblique angle to each other, the head set will conform more accurately to the shape of the head of the wearer, and will provide a substantially sound tight joint between the ears and the receivers.

It is a further purpose of the invention to provide means for carrying the receivers which are adjustably mounted on the head bands, and which are adapted to be held in any desired adjusted position, said receiver holding means being so constructed that the same will not turn relative to the head band, whereby the diverging relationship of the receivers is not disturbed in adjusting the receivers or ear pieces on the band.

Other objects and advantages of the invention will appear as the description of the accompanying drawings proceeds. However, I desire to have it distinctly understood that I do not intend to limit myself to the exact details shown or described, but that I intend to include as part of my invention all such obvious changes and modifications of parts as would occur to a person skilled in this art, and as would fall within the scope of the claims.

In the drawings:

Fig. 1 is a side elevational view of my improved head piece;

Fig. 2 is an inside elevation thereof;

Fig. 3 is an end view of the device;

Fig. 4 is a section taken on the line 4—4 of Fig. 3;

Fig. 5 is a section taken on the line 5—5 of Fig. 4;

Fig. 6 is a perspective view of the receiver holding clip;

Fig. 7 is a view similar to Fig. 1 of a modified form; and

Fig. 8 is a view similar to Fig. 2 thereof.

Referring in detail to the drawings, in Fig. 1 is shown a head band 10 of resilient material, which may be covered, if desired, with any suitable covering material. The head band 10 is provided with slightly deflected ends 11 so as to prevent engagement of the ends of the band with the head of the wearer in placing the device in position, and said band 10 is provided with slots 12 at the ends thereof.

Mounted in each of the slots 12 is the rearwardly extending screw threaded stud 13, which is mounted on the enlarged central portion 14 of the receiver holding member 15. Said member 15 is provided with an arm 16 having a right angularly extending end portion 17 which is provided with a pivot stud or pin 18 projecting from the inner face of the arm, said pivot member 18 being held in place in any desired manner. The member 15 is provided with an arm 19 which is provided with an offset at 20 so as to throw the outer portion 19′ of the member 19 out of alignment with the member 16 and rearwardly thereof. The arm 19 is provided with a right angularly extending portion 20 which is of substantially the same length as the portion 17, and which is provided with a stud or pivot member 21 similar to the member 18.

It will be noted that due to the offset 20 the pivot pin 21 is spaced nearer to the main body portion 14 of the member 15 than the pivot pin 18. The stud 13 as previously mentioned extends through the slot 12, and is screw threaded so as to screw threadedly receive the nut 22, said nut 22 being adapted to clamp the member 15 in any desired position relative to the band 10, it being evident that the stud 13 can be adjusted lengthwise of the slot 12 as desired.

Mounted between the pivots 18 and 21 are the receivers 23, said receivers being provided with suitable openings for receiving the pivot members 18 and 21, as is customary. It will be noted that due to the fact that the pivot member 21 is positioned nearer the band 10 than the pivot member 18, the forward ear engaging faces 24 of the receivers 23 will extend at an oblique angle to each other, and that due to the fact that they extend at such an angle, said receivers will fit very closely to the head of the wearer of the device, because the shape of the head is such that the head is narrower forwardly of the ears than rearwardly thereof. It is necessary in order to maintain the desired angle of the receivers relative to each other at all times, that the members 15 carrying the receivers do not swivel or turn in any direction relative to the band 10. Accordingly the extensions 25 are provided on the wider portion 14 of the member 15, said extensions 25 being provided with rearwardly extending lips 26 which are adapted to enter the slot 12 so as to prevent any pivotal movement of the member 15 on the band 10, but permitting sliding thereof in the slots 12 to adjust the members to any desired positions lengthwise of the band.

If desired, instead of providing an offset in one arm of each of the clips, the means shown in Figs. 7 and 8 may be used to turn the receivers at an oblique angle to each other. In said figures the head band 10′ is provided with the slots 12′ for receiving the studs 13′ provided on the clips 15′. The clips, instead of having one arm thereof offset, are provided with similar arms 31, having similar angular end portions 32 carrying pivot pins 33 between which the receivers 23′ are mounted. It will be noted that the faces 24′ of said receivers extend at an oblique angle to each other and that said angularity is obtained by twisting the head band 10′ at 34 as will be clear from Figs. 7 and 8. The clips are slidable on the band 10′ in the same manner as the clips 15 are slidable on the band 10 and said clips are provided with the members 26′ corresponding to the members 26 for preventing turning of said clips on the band.

Having thus described my invention, what I desire to claim and secure by U. S. Letters Patent is:

1. A device of the character described, comprising a head band of flexible material, a receiver supporting member non-rotatably mounted directly thereon to project laterally therefrom, and a receiver pivotally mounted on said member, the axis of said pivots extending at a fixed oblique angle to said head band.

2. A device of the character described, comprising a head band of flexible material, a receiver supporting member projecting laterally therefrom and non-rotatably and longitudinally adjustably mounted directly thereon, and a receiver pivotally mounted on said member, the axis of said pivots extending at a fixed oblique angle to said head band for any adjusted position of said supporting member.

3. A device of the character described, comprising a head band, a receiver supporting member slidably and non-rotatably mounted on said head band to project laterally therefrom, and a receiver, said receiver being pivotally mounted on said member on an axis extending obliquely to said head band for any adjusted position of said member.

4. A device of the character described, comprising a head band of flexible material, a receiver supporting member non-rotatably mounted directly thereon to project laterally therefrom and a receiver pivotally mounted on said member, said supporting member having an offset therein whereby the axis of said pivots extends at a fixed oblique angle to said head band.

5. A device of the character described, comprising a head band, a receiver supporting member slidably and non-rotatably mounted on said head band to project laterally therefrom and a receiver, said receiver being pivotally mounted on said member on an axis extending obliquely to said head band for any adjusted position of said member, said head band having a slot therein and means on said receiver supporting member entering said slot to hold said supporting member against rotation on said head band.

6. A device of the character described comprising a head band having slots in the ends thereof, receiver holding members each having means entering said slots to adjustably mount the same on said head band, a pair of angular arms thereon, pivot pins on said arms and receivers mounted between said pivot pins, one of said arms of each pair being offset transverse to said pivot pins whereby said receivers extend at a fixed oblique angle to said head band.

In witness whereof, I hereunto subscribe my name this 12th day of May, A. D. 1922.

OSCAR M. LEICH.