

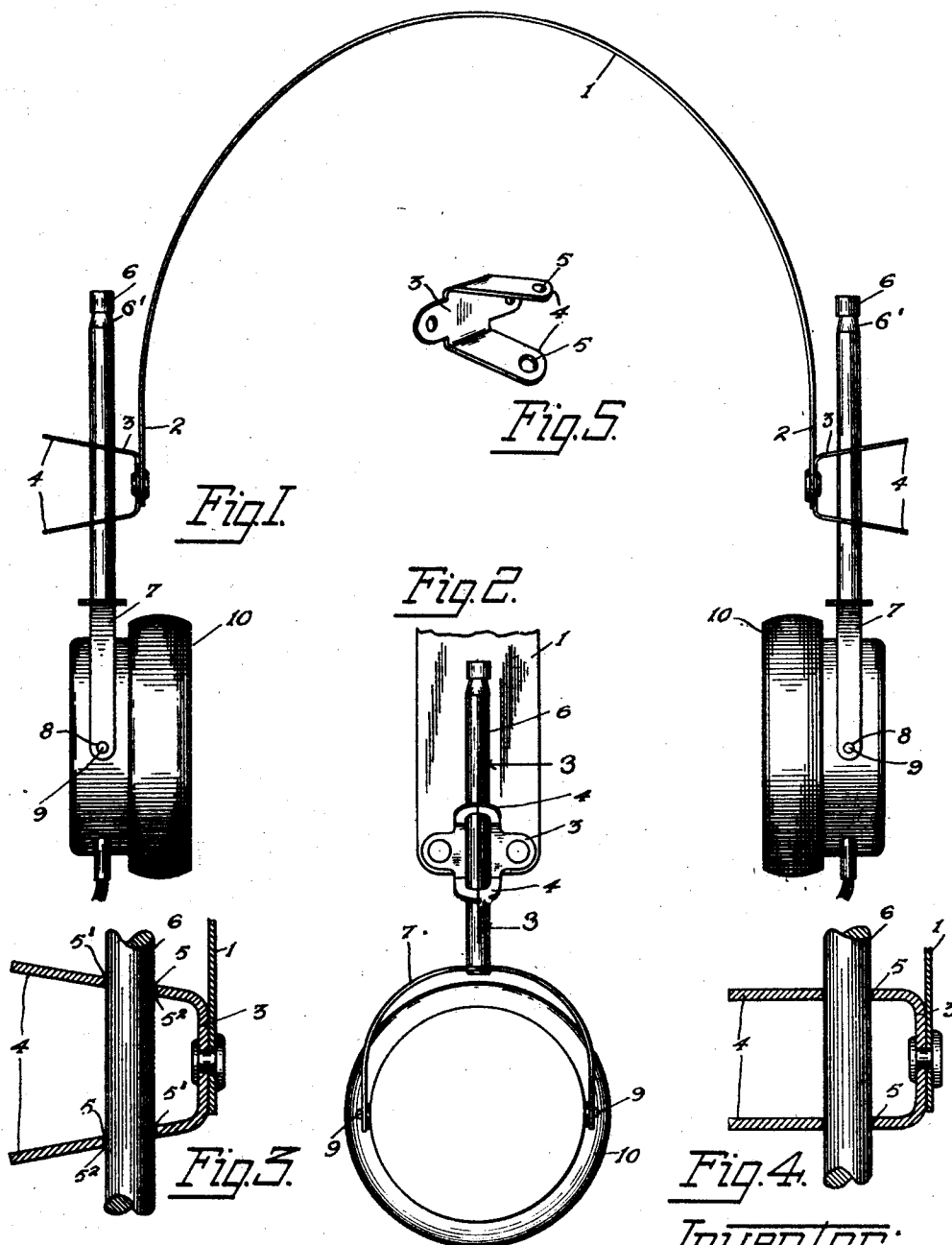
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F. W. KAISLING, JR

HEAD RECEIVER SET

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UNITED STATES PATENT OFFICE.

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HEAD RECEIVER SET.

Application filed February 27, 1922. Serial No. 539,357.

My invention relates to head receiver sets in general, and has to do more particularly with an improved receiver head set for use in telephone or wireless receiving, where it is desired to have two ear pieces properly fitted and held against the ears in the best positions for hearing and at the same time comfortably.

Various means have been devised for adjustment of the receivers in such sets so that they may be readily shifted in position on the head band to accommodate heads of various sizes and shapes. Set screws and other devices have been used, and usually the set must be removed from the wearer's head to permit this adjustment. To overcome these objectionable features, I have provided an improved spring clamping member which, by means of frictional resistances holds the receiver of the set in any position and enables adjustments to be made without removing the receiver set from the head of the wearer.

For a more complete understanding of my invention, reference may be had to the accompanying drawing, in which like reference characters in the several views denote like parts, and in which—

Fig. 1 is an elevation of a complete head set embodying my invention;

Fig. 2 shows a receiver and clamping device in plan view;

Fig. 3 is an enlarged view partly in section along the line 3—3 of Fig. 2, to more clearly illustrate the spring clamping member;

Fig. 4 is a view similar to Fig. 3, in which the clamping member is operated to permit adjustment of the head receiver; and

Fig. 5 is a perspective view of the U-shaped clamping member.

Referring now more in detail to my invention as illustrated, I show a head band 1 of suitable material and formed so as to fit snugly over the top of the head of the wearer. To the free ends 2 of the head band 1, I rivet U-shaped spring clamping members 3, constructed of suitable spring steel, and as both of the U-shaped clamping members are alike, a description of one will suffice. The legs 4 of the U-shaped clamping member 3 diverge slightly so as to give them a tension when their free ends are forced toward each other for purposes as will presently be described. Each leg 4 of the

member 3 is provided with an orifice 5 to permit the insertion of the rod 6. The rod 6 has secured to it a yoke member 7 whose free ends are provided with suitable orifices 8 which are adapted to receive the pins 9 of the receiver 10 to pivotally support the receiver between the free ends of the yoke member 7.

To insert the rod 6 into the orifices 5 in the legs 4 of the member 3, the free ends of the said legs 4 are forced toward each other against their normal tension until they are substantially parallel with each other as clearly illustrated in Fig. 4. This movement places the legs 4 of the member 3 at right angles with the rod 6, and as the orifices 5 are slightly larger than the diameter of the rod 6, the same may be inserted or freely moved up or down. When the tension is released from the free ends of the legs 4 of the U-shaped member 3, they assume their normal position as illustrated in Fig. 3, thus placing their legs 4 in angular relation to the rod 6 such as to cause the edges 5' and 5² of the orifices 5 in the legs 4 to clamp the surface of the rod 6 and this produces sufficient frictional resistance to the free sliding of the rod 6 in the orifices 5 in the U-shaped member 3 to hold the rod firmly wherever it may be. From the above description, it may readily be seen that in order to adjust the receivers 10 up or down, as the case may be, to fit properly to the ears of the wearer, all that is necessary is to press together with the fingers the free ends of the legs 4 of a U-shaped clamping member 3 until the walls of the orifices 5 free the rod 6 when the rod 6 and its supported receiver 10 may be moved up or down until the receiver 10 is properly fitted against the ears of the wearer. When this adjustment is obtained, pressure is released from the free ends of the legs 4 of the members 3, thus permitting the legs 4 to spread apart, causing the orifices 5 to again clamp the rod 6 to hold it in its adjusted position by means of the frictional resistances produced by the engagement of the edges 5' and 5² of the orifices 5 with the surface of the rod 6. When the receivers 10 have been placed in their adjusted positions after the manner described, the rods 6 may be rotated in the openings 5 in the legs 4 of the member 3 to permit the receivers 10 to fit snugly against ears of the wearer.

A circumferential groove 6' is provided in the free end of the rod 6, which groove 6' is adapted to engage the upper diverging leg 4 of its associated U-shaped clamping member 3 to prevent the rod 6 from disengaging the legs 4. When the rod 6 is being adjusted and should it be pulled downwardly to its fullest operating position the groove 6' will engage the upper leg 4 as the rod 6 will tend to move in a slanting or a diagonal direction when adjustment is being made and not in a direct vertical line as the person wearing the head band in adjusting the receivers to his ears will naturally pull the same at an angle and not in a direct vertical line. Of course, the free end of rod 6 is of a proper size to pass through the orifices in the legs 4 when the rod 6 is moved in a direct vertical direction which will permit the rod 6 to disengage the legs 4 of the clamping member 3.

While I have illustrated and described a preferred embodiment of my invention, it is to be understood that changes and modifications will readily suggest themselves, but I aim to cover all such changes and modifications as come within the spirit and scope of the appended claim.

What I claim as new and desire to secure by United States Letters Patent, is:—

A device of the character described comprising a head band, U-shaped clamping members provided with diverging legs, rivets for securing said U-shaped clamping members to the opposite ends of said head band to prevent movement of said U-shaped clamping members relative to said head

band, the legs of said U-shaped clamping members being provided with orifices, a pair of receivers, yokes having pivot pins secured to their ends which enter orifices in said receiver for pivotally supporting said receivers, orifices in said yokes intermediate of their ends, rods having their one end entering said orifices, the said ends being spun over to secure said posts to said yokes to form a pair of units, the free end of the said rods extending through the said orifices in the diverging legs of the said U-shaped clamping members, the said diverging legs of the said U-shaped clamping members, thus placing the walls of the orifices in the diverging legs in angular relation to the axes of the rods to cause the opposite edges of the orifices in the diverging legs to impinge tightly upon the circumferential surfaces of the said rods to prevent free longitudinal sliding movement of said rods but to permit rotary movement of said rods and their associated yokes and receivers as a whole in said orifices, a conical shaped circumferential groove in the free ends of said rods cooperating with one of the diverging legs of its associated U-shaped member, said leg entering into said groove to prevent the rod from being withdrawn from the orifices in said diverging legs when moved to its extreme upper adjusted position in said U-shaped clamping members.

Signed by me at Chicago, in the county of Cook and State of Illinois, this 24th day of February, 1922.

FRANK WILLIAM KAISLING, JR.