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R. H. MANSON

TELEPHONE HEADSET

Filed March 20, 1922

FIG. 1

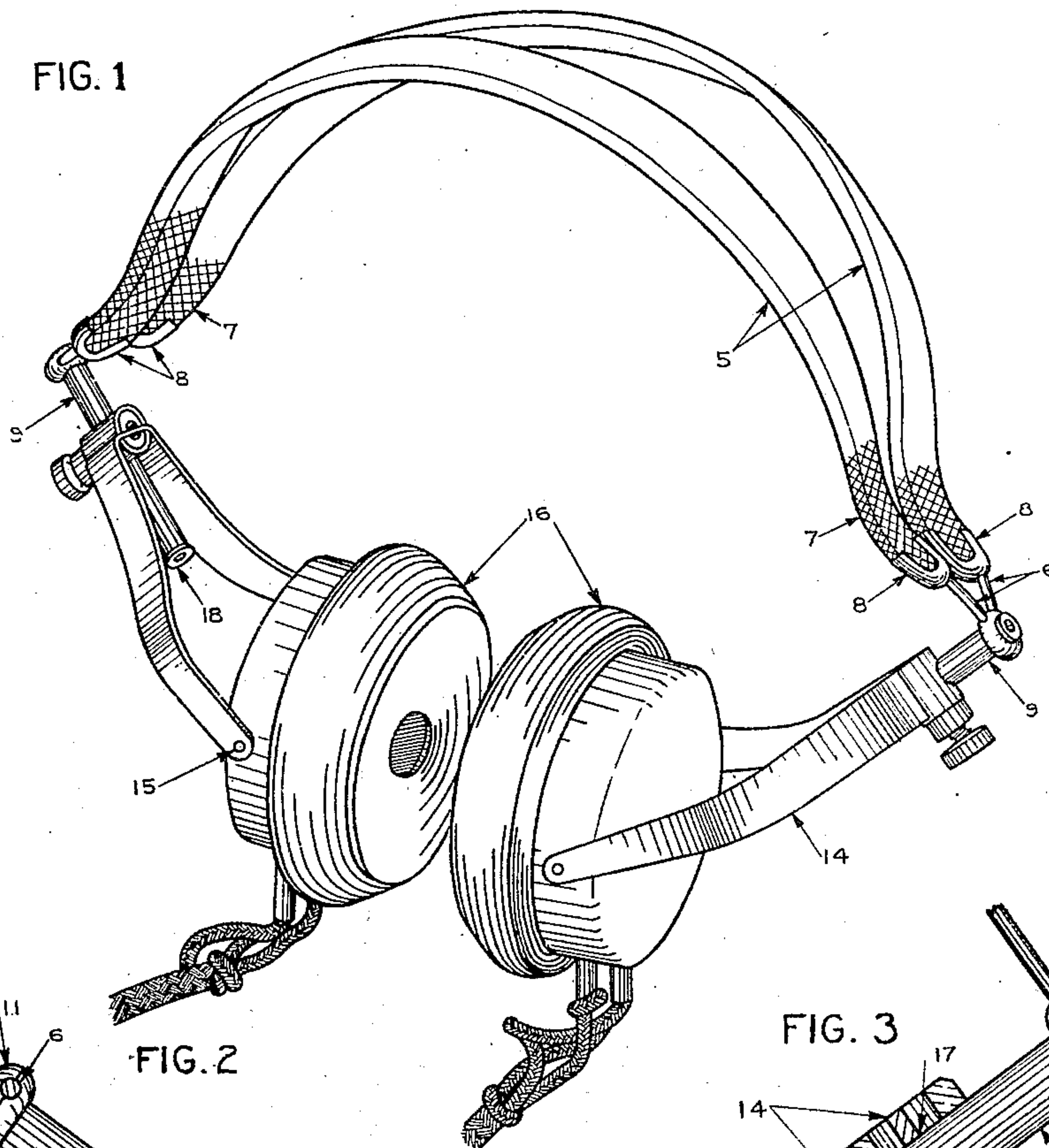


FIG. 2

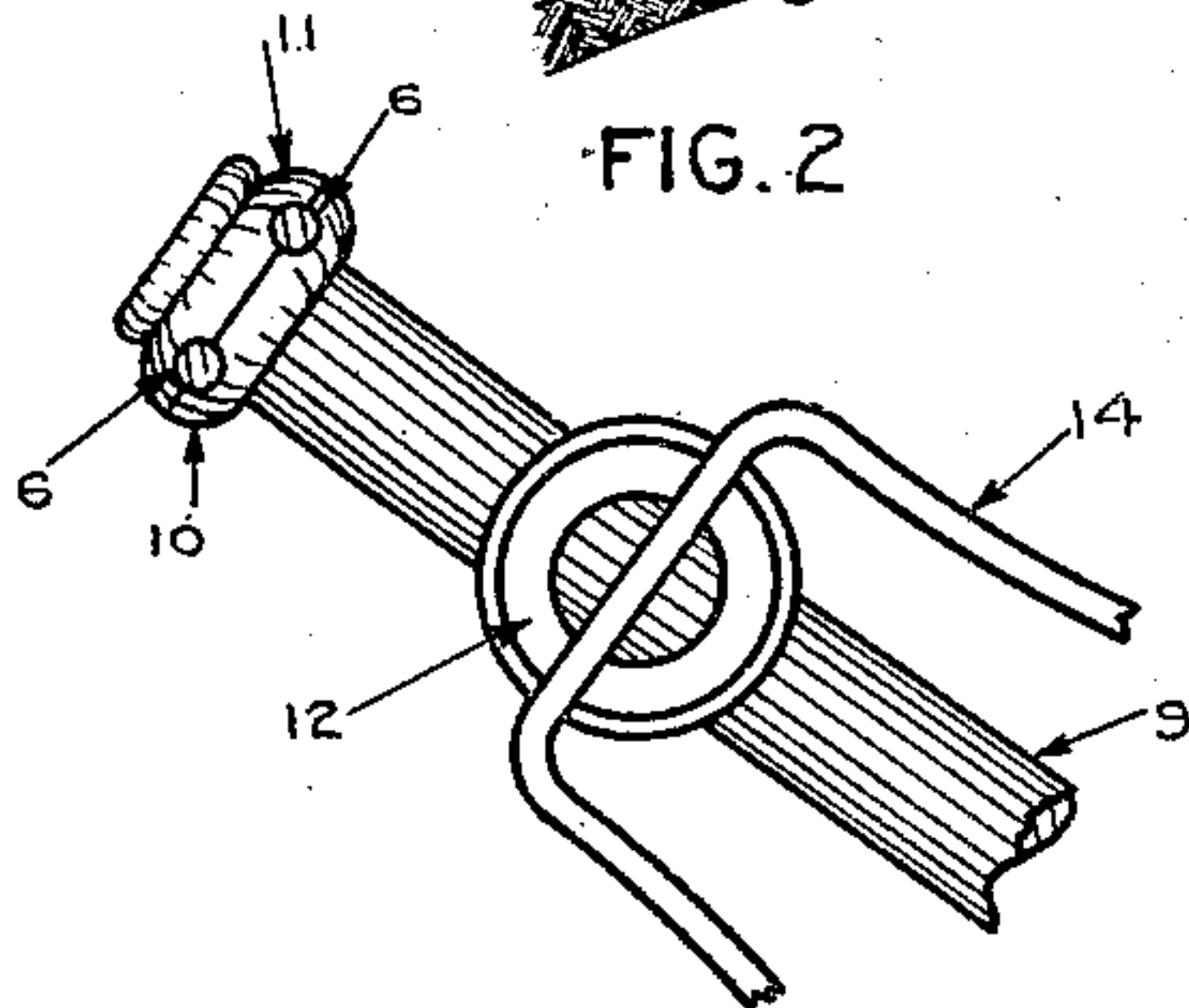
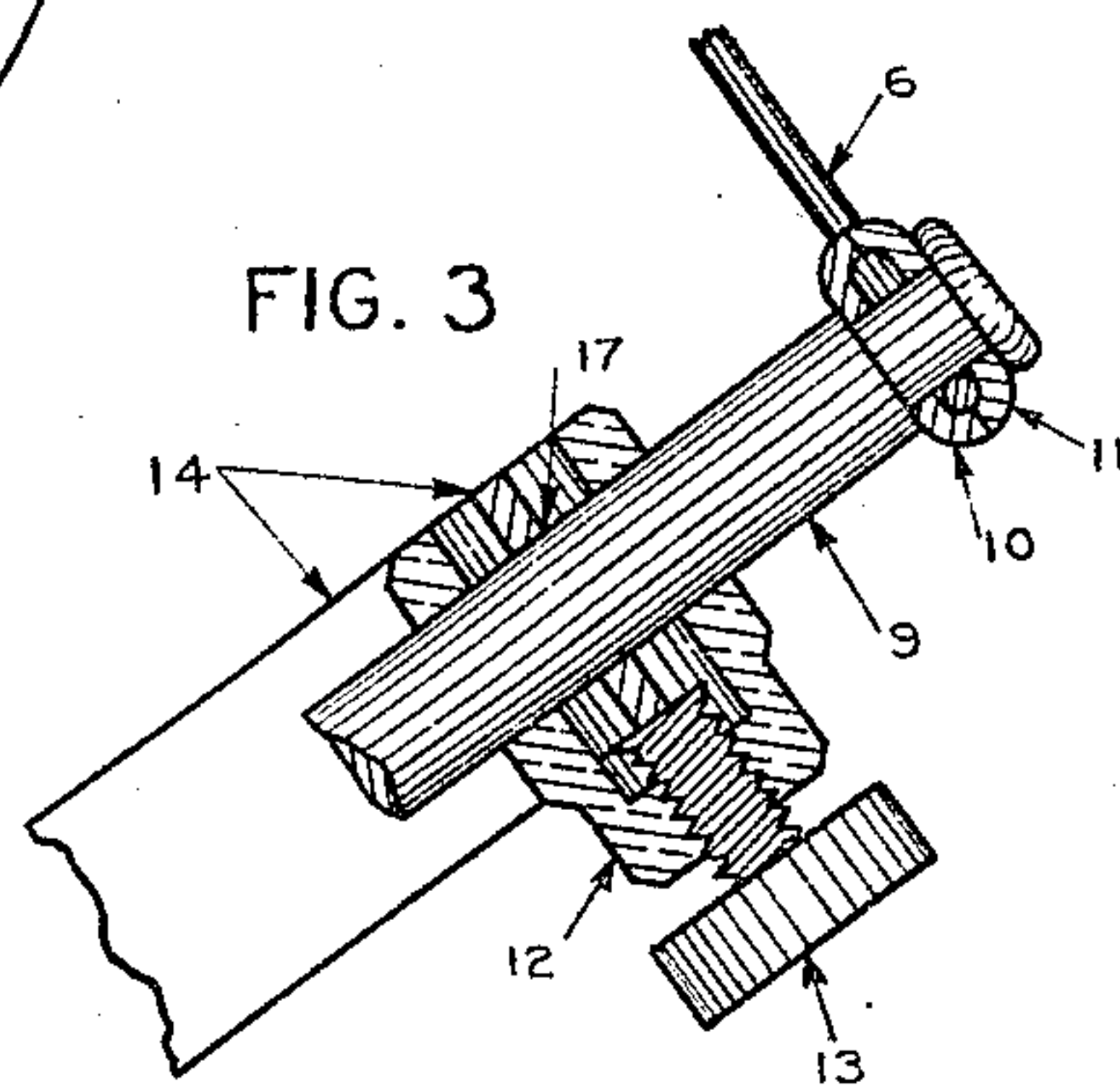


FIG. 3



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## UNITED STATES PATENT OFFICE.

RAY H. MANSON, OF ROCHESTER, NEW YORK, ASSIGNOR TO THE STROMBERG-CARLSON  
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## TELEPHONE HEAD SET.

Application filed March 20, 1922. Serial No. 544,997.

*To all whom it may concern:*

Be it known that I, RAY H. MANSON, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Telephone Head Sets, of which the following is a full, clear, concise, and exact description.

The present invention relates to a telephone head-set in which the receivers are readily and accurately adjusted to the ears of the user so that extraneous sounds are excluded. This head-set is designed so that it is light and comfortable to the wearer and yet it is simple and inexpensive in construction.

The features of the invention which consists of the novel combinations and arrangement of parts adapted to achieve such results, will be pointed out in the detailed description and appended claims.

In the drawing, Fig. 1 is a perspective view of the headset of this invention, while Figs. 2 and 3 are detail views showing universal fittings by which the receivers are variably positioned and by which they are locked in the position to which they are so adjusted.

Referring to the drawings, 5 designates a head band which consists of a curved loop of spring wire 6 formed by bending a single length of wire back upon itself. The wires of the loop, except at its ends, are covered with cloth webbing 7, in order that the wire may not come into contact with the head of the user, which renders the head-set more comfortable. The ends of each strip of webbing are finished by metal binders such as 8 serving to cover the loose ends of the webbing and at each end of the loop of wire there is supported a metal rod 9, which is secured to the spring wire of the head-band. The upper end of each rod as shown in Fig. 3 is reduced to provide a shoulder against which cup washer 10 rests. One end of the loop of spring wire is then placed to encircle the end of the rod 9 and a second cup washer 11 is placed above the end of the loop of the spring wire. These cup washers 10 and 11 which rigidly clamp each end of the head-band to a rod 9, are held in position by spinning over or riveting the end of the rod 9.

A cup-shaped post formed with a longitudinal

kerf, is provided with a cross bore to receive the rod 9 and has a threaded opening in its end to receive a knurled thumb screw 13. A stirrup 14 of resilient material also provided with an opening 17 to receive the rod 9 is adapted to enter the kerf in the post 12, while each arm of the stirrup is provided with a pin 15 to engage an opening in the receiver shell 16. This arrangement permits easy removal of the receiver from its supporting stirrups.

In assembling the universal fittings on the rod 9, the stirrup 14 is first inserted into the kerf of the post 12 with the opening 17 of the stirrup registering with the opening in the post and both of these members are then placed on the rod 9. In order to prevent these fittings from being removed from the rod, its lower end is provided with a washer 18 riveted thereto. After the stirrups have been adjusted to the desired position, the knurled thumb screw is turned causing the stirrup 14 to move laterally in the kerf and bind against the rod 9 to frictionally hold the stirrup and its receiver in the position desired.

It will thus be seen that a telephone receiver of simple construction and universal adjustment has been provided.

What is claimed is:—

1. In a telephone head-set, a head band, a rod secured to one end of said head band, a post having a kerf therein, a cross bore in said post, an apertured stirrup fitted to enter said kerf with its aperture in alignment with said cross bore, said rod being inserted through said cross bore and aperture, means tending to force said stirrup so that its aperture is out of alignment with said cross-bore, and a telephone receiver supported by said stirrup.

2. In a telephone head-set, a pair of rigid rods each of which is provided with a reduced end portion, a resilient head-band secured at its ends to said reduced portions of said rods, a pair of posts each having a kerf and a cross bore, a pair of apertured stirrups each fitted to enter a kerf in one of said posts with its aperture in alignment with said cross bore, each rod being inserted through a cross bore and aperture of one of said posts and stirrups, a screw threaded in each post tending to force each stirrup so

that its aperture is out of alignment with said cross bore, and a telephone receiver detachably mounted in each stirrup.

3. In a telephone head-set in combination,  
5 a resilient head band, a receiver and means for supporting said receiver on said head band, said means including a rod, a U-shaped member, the arms of which are provided with openings in registry, the junction of said two  
10 arms having a threaded opening, an apertured member for resiliently engaging said

receiver, said member being placed between said arms with its opening in registry with the openings in said arms, said rod being inserted in the openings in said arms and said member, and a set screw to force said member  
15 out of registry with the openings in said arms whereby said member grips said rod to hold said receiver in adjusted position.

In witness whereof, I hereunto subscribe  
20 my name.

RAY H. MANSON.