Oct. 31, 1950 M. A. REINSDORF 2,527,656

COMBINATION HEADREST AND EARPHONES

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FIG. 1.

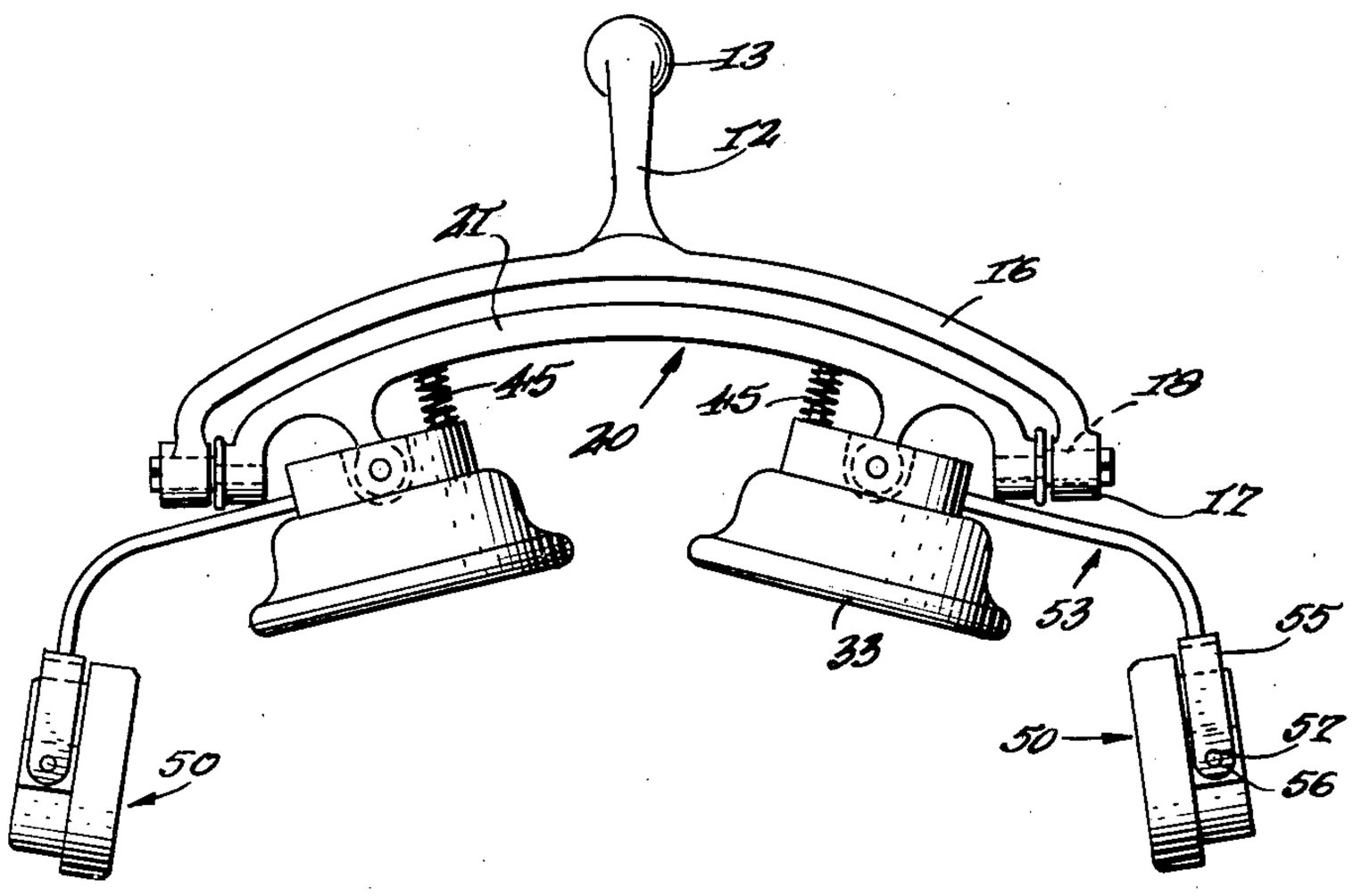


FIG. 2.

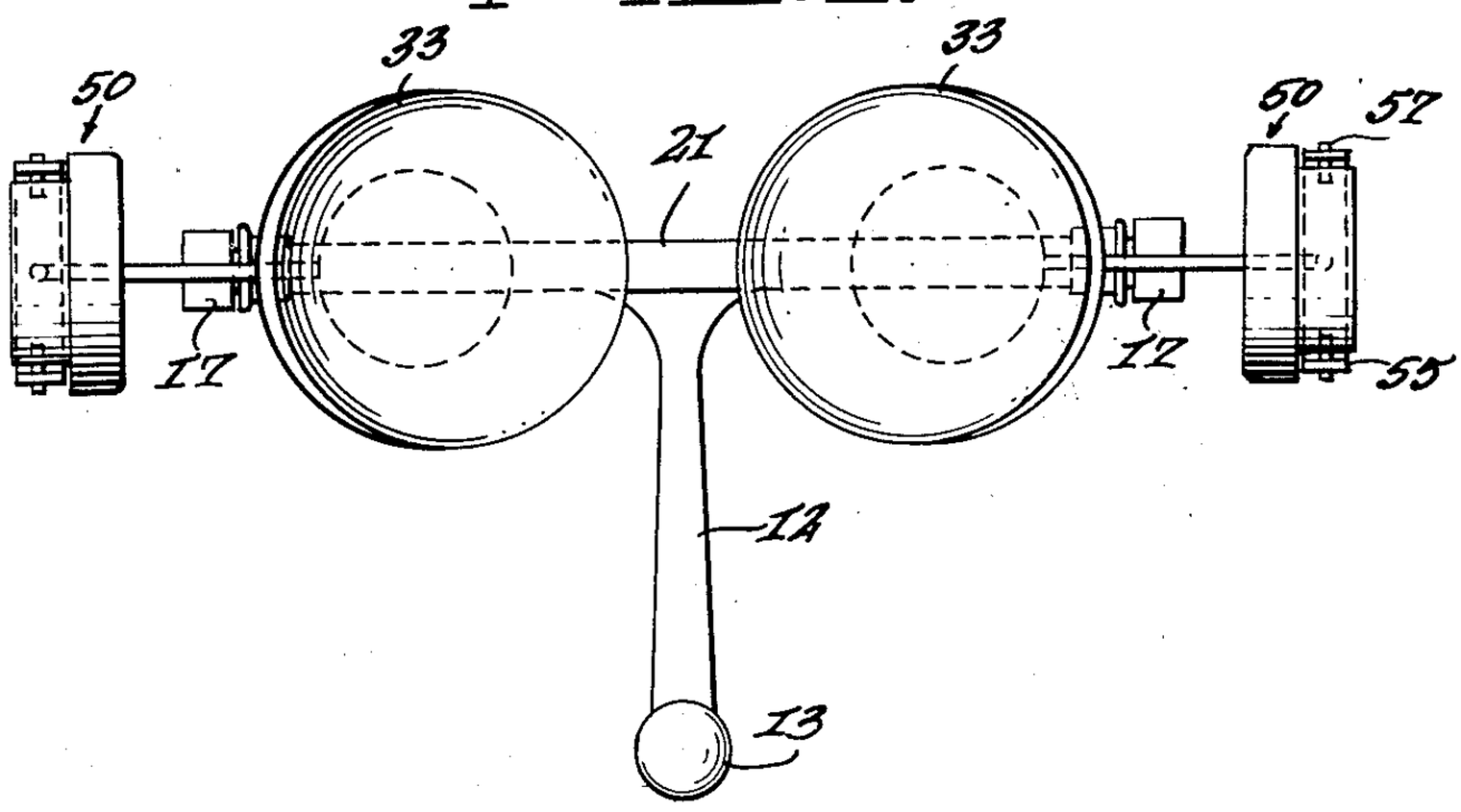


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FIG. 3.

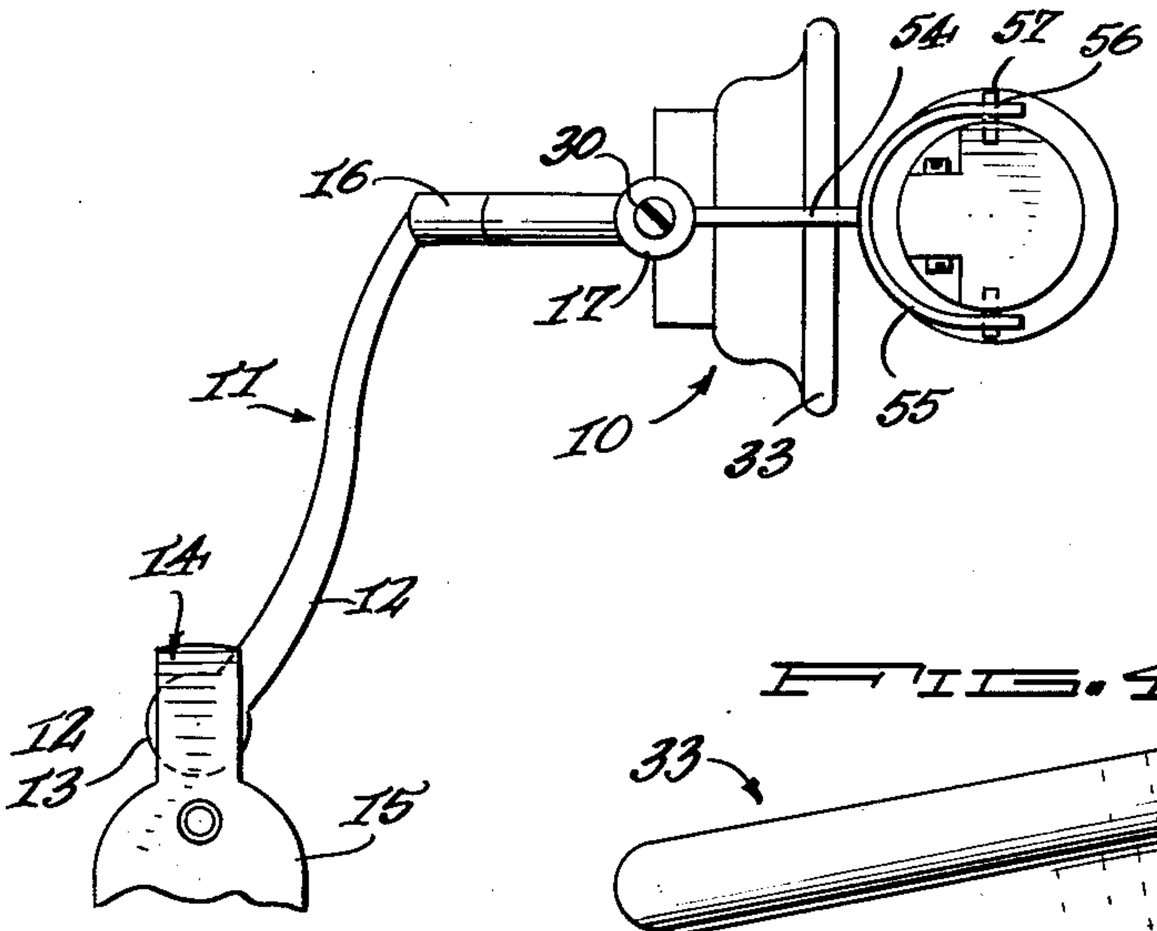



FIG. 4.

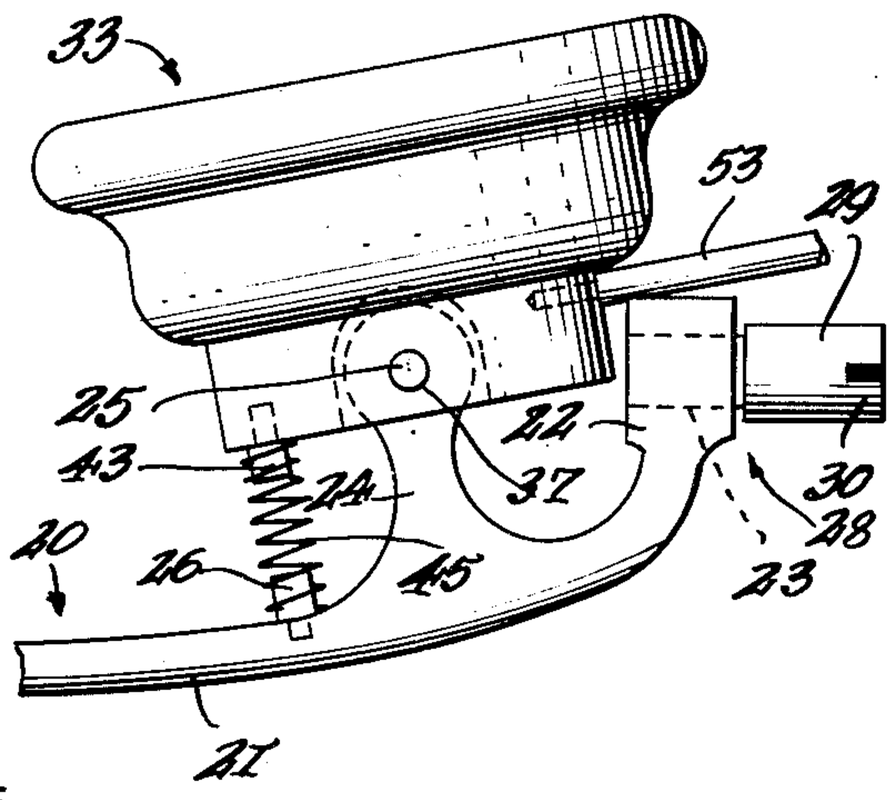
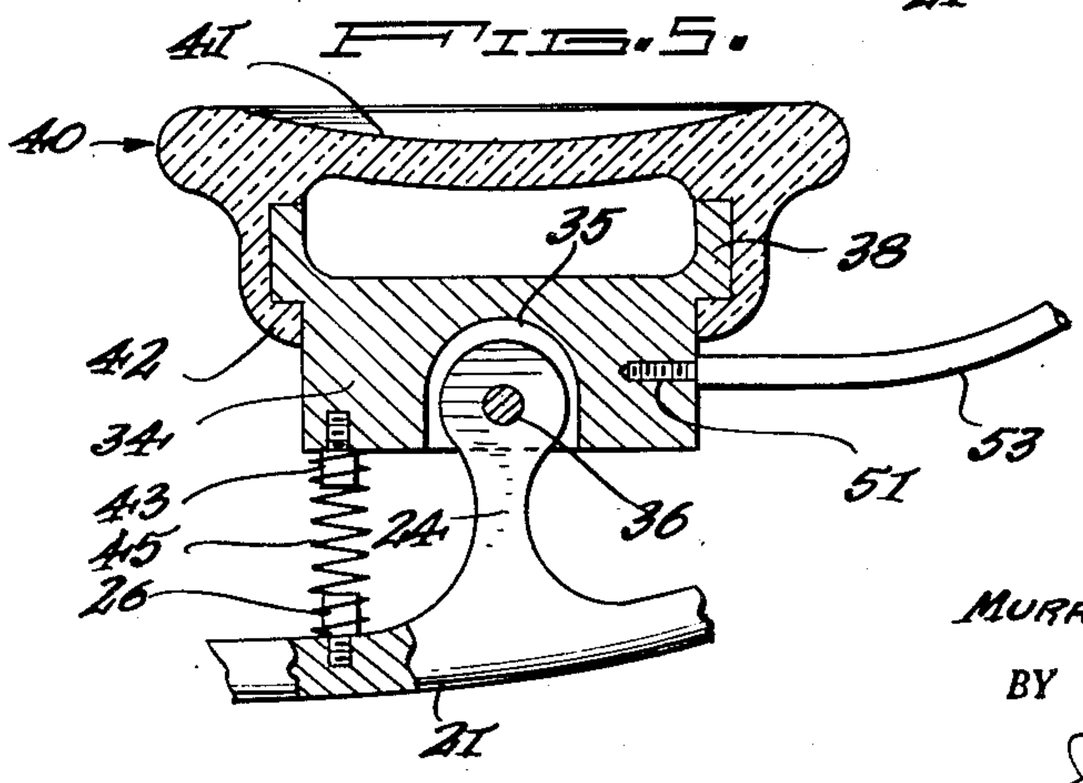



FIG. 5.

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# UNITED STATES PATENT OFFICE

2,527,656

## COMBINATION HEADREST AND EARPHONES

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Application April 10, 1947, Serial No. 740,627

6 Claims. (Cl. 179—146)

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This invention relates to combination head rest and ear phones and may be used for dentist's or barber's chairs or in hair dressing establishments. Its purposes is to enable a person sitting in the chair and having his head on a headrest, to listen to music and also to keep out street noises.

An object of this invention is to provide a device of the character described comprising pivoted head engaging members, and ear phones attached thereto so as to swing therewith.

Another object of this invention is to provide a device of the character described so arranged that when a person leans his head back against the head rest, the ear phones will move against the person's ears, and when he moves his head off the head rest, the ear phones will move away from the ears.

Another object of this invention is to provide a strong, compact and durable construction of the character described which shall be relatively inexpensive to manufacture, which shall be sure and positive in operation, which may be incorporated into dentist's or barber's chairs now in use, and which shall be highly efficient, comfortable and practical in use.

Other objects of this invention will in part be obvious and part hereinafter pointed out.

Fig. 1 is a top view of combination head rest and ear phones, embodying the invention;

Fig. 2 is a front elevational view of the device embodying the invention;

Fig. 3 is a side elevational view thereof:

Fig. 4 is a top plan view of a portion of the device and

Fig. 5 is view similar to Fig. 4 but with parts in cross-section.

Referring now in detail to the drawing, 10 designates a device embodying the invention. The same comprises a bracket 11 having an arm 12 formed with a ball 13 which is clamped in a ball socket 14 on the back 15 of a chair such as a dentist's chair, barber chair, hair dresser's chair or the like article of furniture.

Extending from arm 12 is a bifurcated curved portion 16 extending to opposite sides of arm 12. Portion 13 terminates in a pair of spaced parallel ears 17 formed with aligned bearing openings 18.

Pivoted on ears 17, in the manner hereinafter appearing, is a headrest bracket 20. Bracket 20 comprises a curved portion 21 concentric with portion 16 of bracket 11. Extending from the ends of portion 21 are parallel ears 22 located inside of ears 17, and formed with aligned screw threaded openings 23 registering with openings 18.

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Extending from said curved portion 21 and located inwardly of ears 22 are similar, symmetrically disposed lugs 24, inclined inwardly and lying in the plane of ears 22. Said lugs 24 are formed with through openings 25 perpendicular to openings 23 and parallel to each other. On said curved portion 21 and inside of lugs 24 are projections 26 parallel to said lugs for the purpose hereinafter appearing. Openings 23 are substantially in the plane of openings 25, as shown in the drawing.

Screwed into openings 23 are screws 28 having heads 29 projecting outwardly. Heads 29 are circular and may be provided with slots 30 for engagement with a screw driver. Heads 29 are journalled in openings 18 of bracket 11 so that bracket 20 may swing about the axis of openings 28, 18.

Pivoted to each lug 24 is a head rest member 33. Each head rest member comprises an annular member 34 formed with a socket 35 on its underside into which a lug 24 projects. Extending through each lug is a pivot pin 36 which engages in suitable openings 37 in member 34. Member 34 is formed at its upper end with an annular outwardly extending rim flange 38. Fitted onto said flange is a cup shaped head engaging member 40. Member 40 may be made of rubber or the like soft, compressible, elastic material. It has a concave surface 41 and also has an annular flange 42 engaging around the flange 38 of member 34.

Attached to the underside of member 34 is a pin or projection 43 aligned with pin or projection 26. Interposed between each headrest member 33 and curved portion 21 of bracket 20 is a coil compression spring 45 the ends whereof receive projections or pins 26, 43. Springs 45 thus tend to swing headrest members 33 in opposite directions to bring the head engaging surfaces thereof toward a common plane.

Fixed to each of said members 34 is an ear phone 50. To this end each member 34 is formed at the outer side thereof, with a screw threaded opening 51, perpendicular to pin 36. Screwed into each opening is one end of a rod 53. Rods 53 are in a plane passing through openings 18, 23 and perpendicular to pins 36. Each rod 53 has a curved arm 54. Fixed to each arm 54 is a semi-circular bracket 55 formed with aligned, diametrically opposed openings 56 through which extends pivot pins 57.

Mounted on pins 57 is an ear phone 50, which may swing about the axis of said pins.

The ear phone may be wired to radio or telephone or phonograph equipment to receive music

or other recorded or broadcast or telephoned sound.

It will be observed that when a head is not bearing against the head rests **33**, they as well as the earphones **50** are swung outwardly to the position shown in Fig. 1 of the drawing, by the springs **45**. When a person sitting in the chair however, leans back and his head bears on the inner ends of the head rests, said rest will swing inwardly against the pressure of springs **45** and the earphones will automatically swing against the person's ears so that he may receive music or other sound therethrough. At the same time street noises are shut out.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiment above set forth or shown in the accompanying drawing it is to be interpreted as illustrative and not in a limiting sense.

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

1. In combination a head rest including a pair of head engaging members hinged on parallel axes, spring means to normally swing said members outwardly, said members being arranged so that a person's head bearing thereon will swing said members inwardly against the pressure of said spring means, and independent earphones attached to said head rest members and adapted to swing therewith against the ear of the person whose head bears on said members.

2. In combination, a bracket having parallel ears having aligned openings, an inner bracket, means to mount said inner bracket between said ears about the axis of said openings, a pair of head rest members pivoted to said inner bracket about parallel axis perpendicular to the axis of said openings, and independent earphones attached to said head rests for movement toward and away from each other upon pivoted movement of said head rest members.

3. In combination, a bracket having parallel ears having aligned openings, an inner bracket,



means to mount said inner bracket between said ears about the axis of said openings, a pair of head rest members pivoted to said inner bracket about parallel axis perpendicular to the axis of said openings, and independent earphones attached to said head rests for movement toward and away from each other upon pivoted movement of said head rest members and spring means to swing said head rest members about their axes.

4. In combination, a bracket, an inner bracket pivoted thereto about an axis, a pair of head rest members pivoted to said inner bracket about a pair of parallel axes, earphone supports attached to said members extending forwardly from the outer sides of said head rest members, and earphones mounted on said supports for swinging movement about axes parallel to the axes of pivotal movement of said members.

5. In combination, a bracket, a pair of head rests pivotally mounted thereon, an arm connected to the outer side of each head rest and extending outwardly and forwardly therefrom, and an earphone mounted on the forward outer end of each arm, whereby the ear phones and head rests will move simultaneously.

6. In combination, a bracket, a pair of head rests pivotally mounted thereon, an arm connected to the outer side of each head rest and extending outwardly and forwardly therefrom, an ear phone mounted on the forward outer end of each arm, whereby the ear phones and head rests will move simultaneously, and spring means interposed between the bracket and the head rests for normally urging the head rests outwardly and maintaining the ear phones in an inoperative position.

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