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(54) **DEVICE AND METHOD FOR REMOTE ACOUSTIC PORTING AND MAGNETIC ACOUSTIC CONNECTION**

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(57) **ABSTRACT**

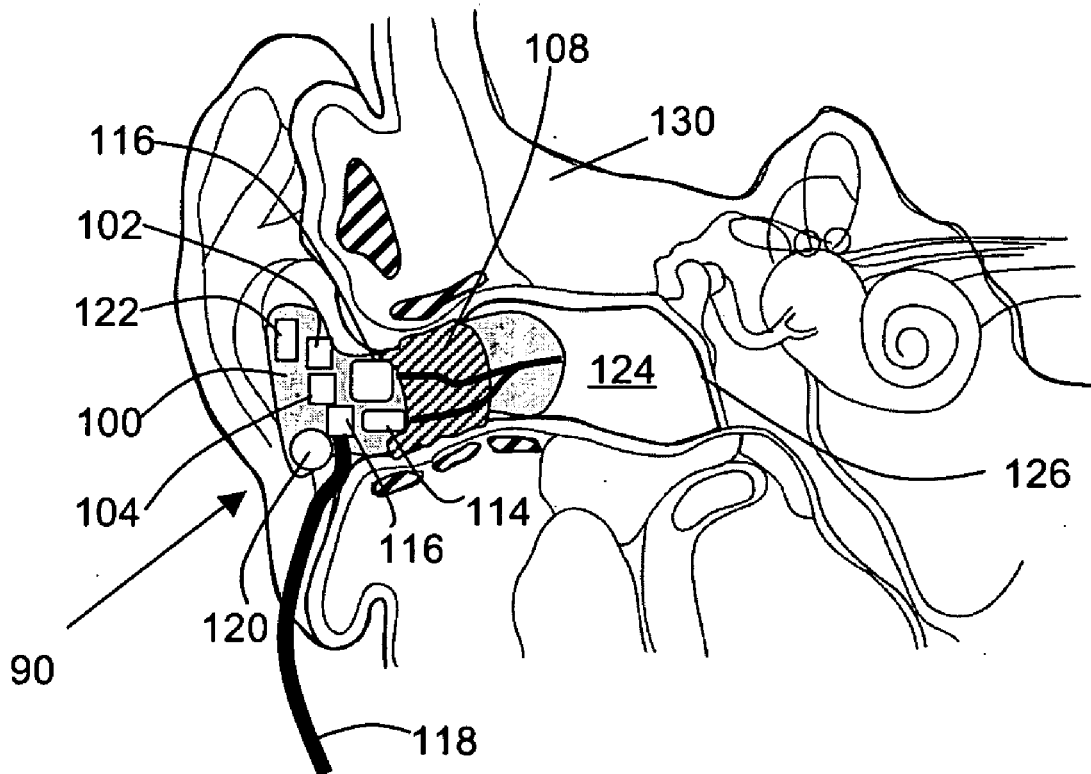
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An earpiece device includes a microphone and a speaker having a common acoustic channel to reduce complexity and minimize components in an ear canal region. The earpiece device also includes a logic circuit operatively connected into an earpiece, where the microphone is configured to sample an acoustic signal traveling from either end of an acoustic channel. The earpiece device further includes a selective attenuation mechanism for varying the acoustic energy from one end of the acoustic channel or combining the acoustic energies in a controlled ratio from both ends of the acoustic channel before reaching the microphone.

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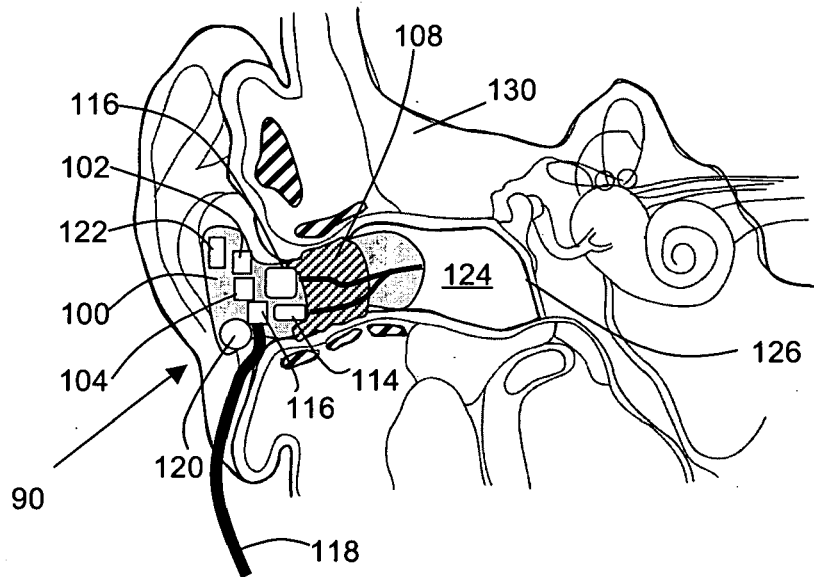


FIG. 1

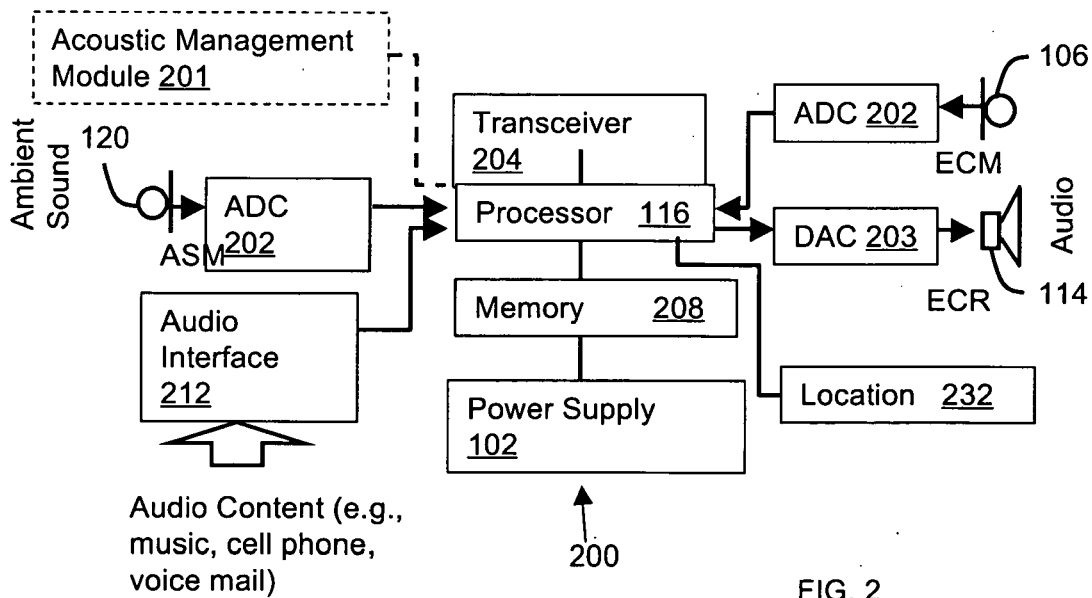


FIG. 2

FIG. 3

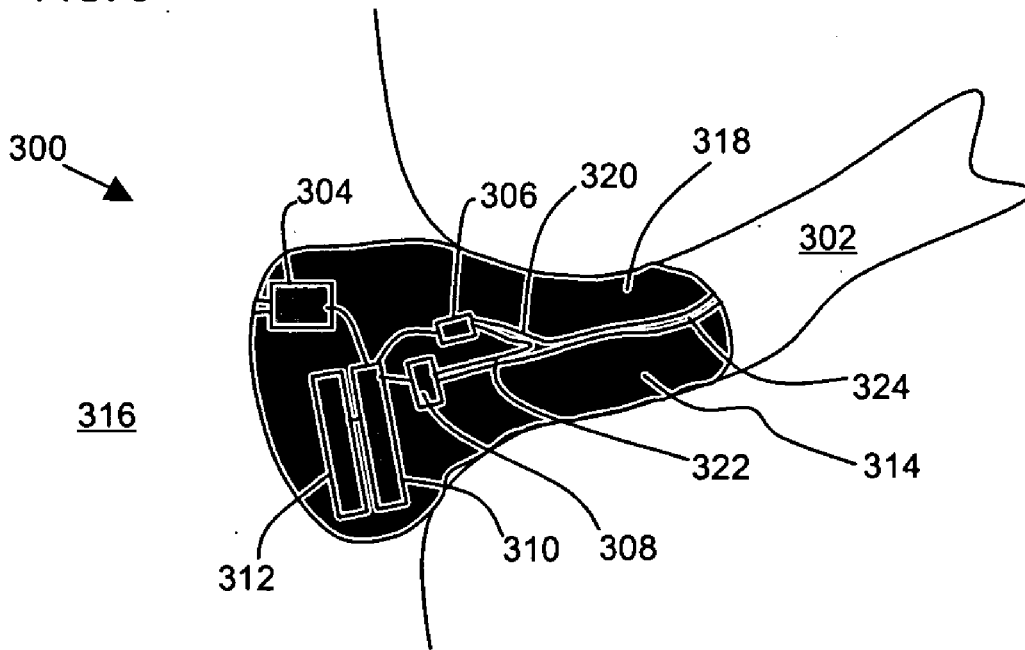


FIG. 4

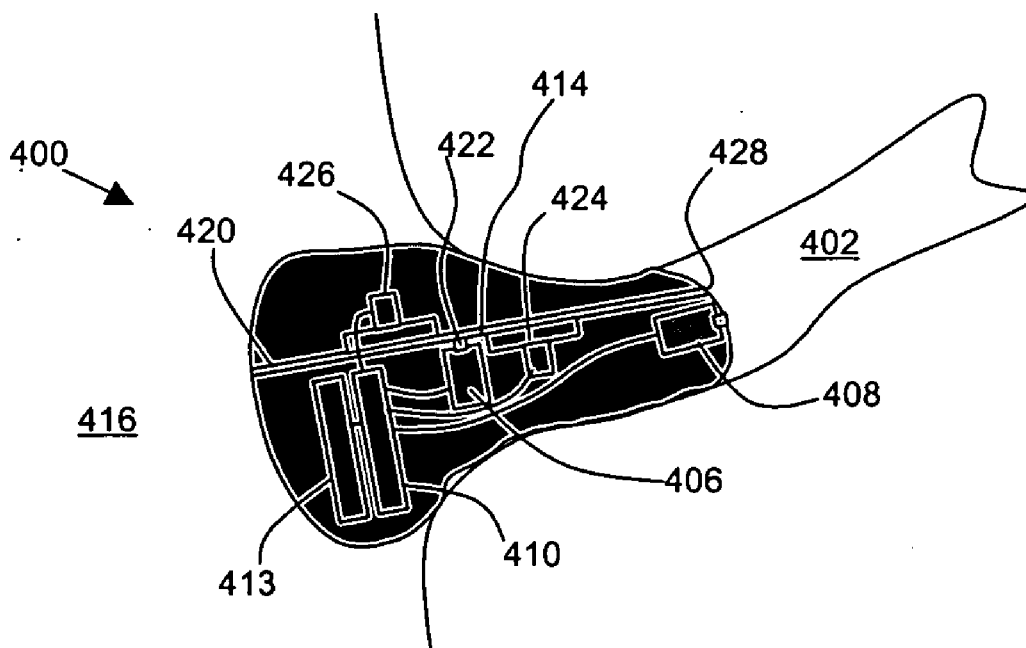


FIG. 5

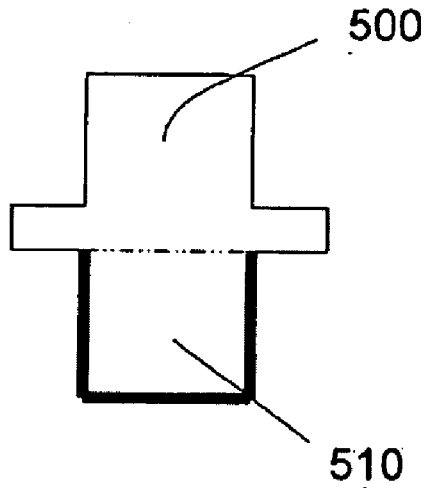


FIG. 6

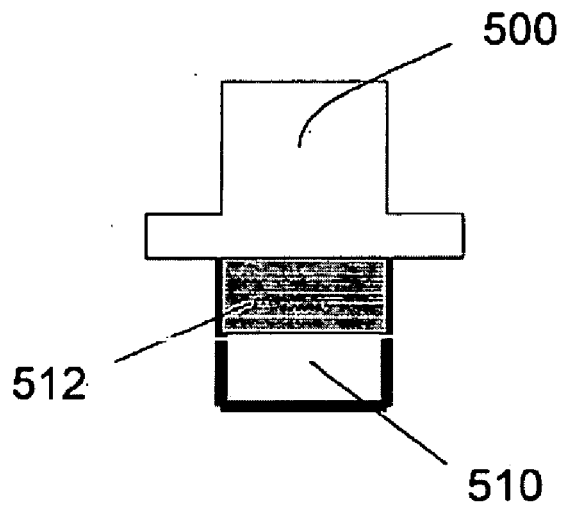


FIG. 7

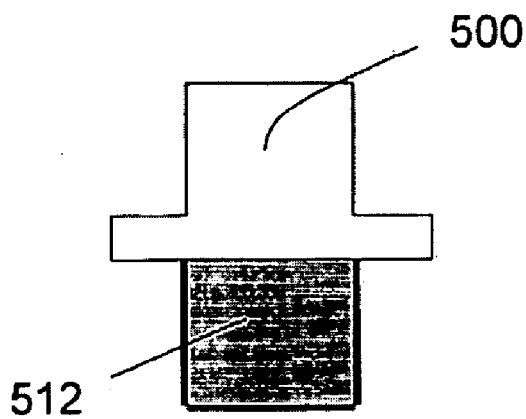
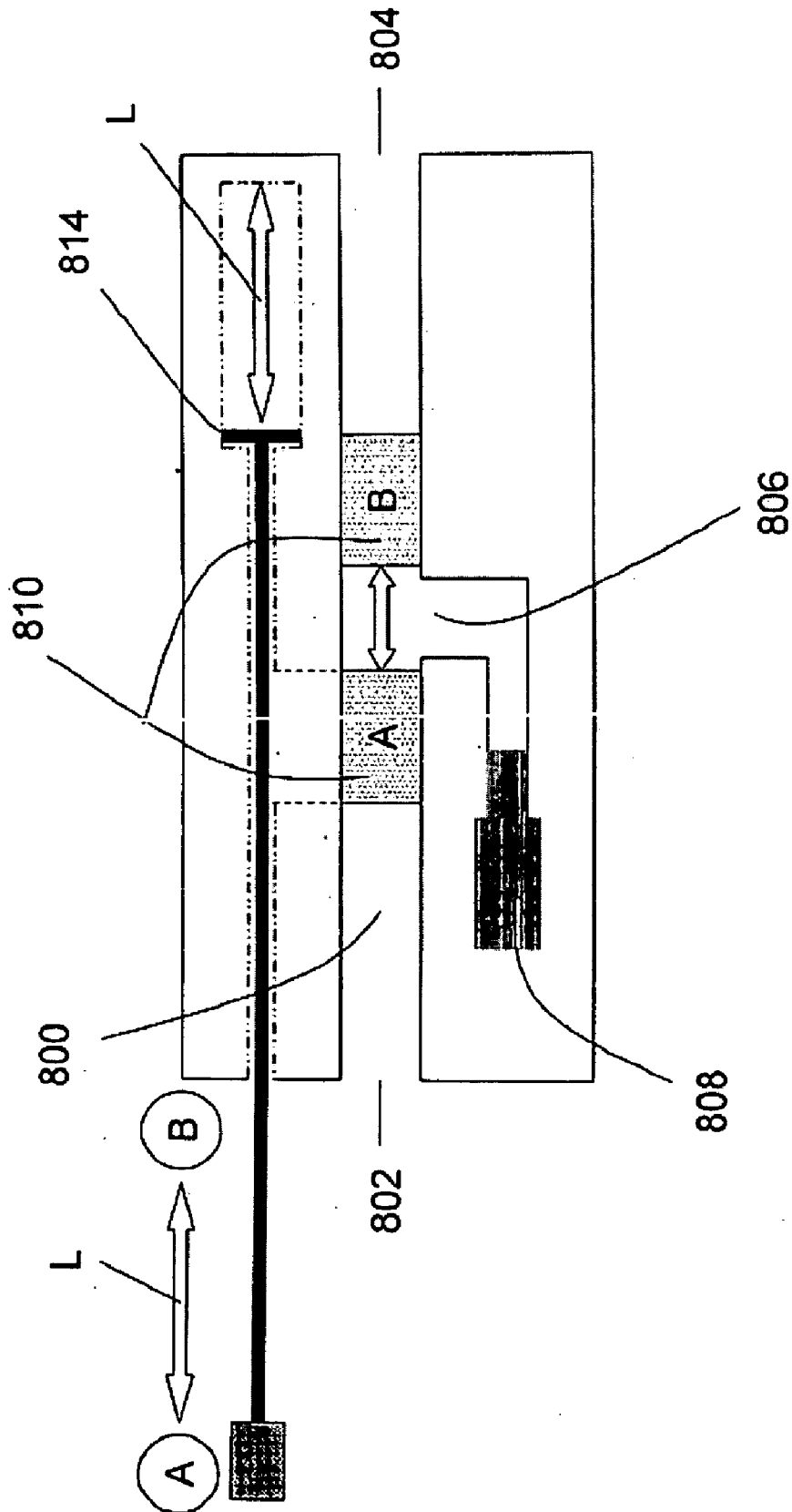


FIG. 8



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