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Pelland et al.

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(54) **WIRELESS EARPHONE THAT TRANSITIONS BETWEEN WIRELESS NETWORKS**

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H04M 1/00 (2006.01)
H04R 1/10 (2006.01)

(52) **U.S. Cl.** **455/556.1; 381/74**

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See application file for complete search history.

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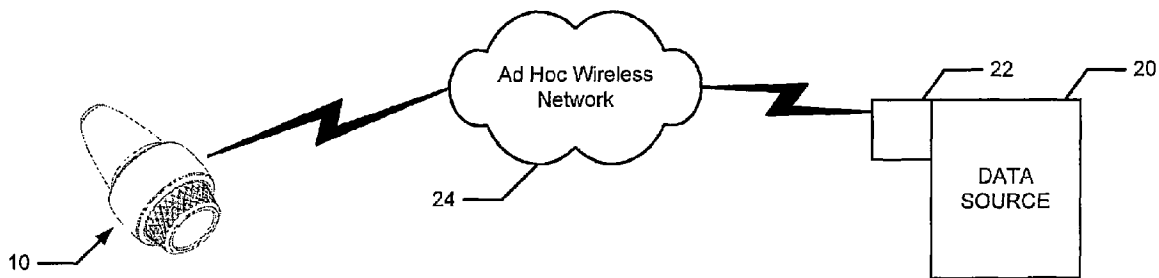
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(57) **ABSTRACT**

A wireless earphone that comprises a transceiver circuit for receiving streaming audio from a data source over a local ad hoc wireless network. When the data source and the earphone are out of range, they transition automatically to an infrastructure wireless network. If there is no common infrastructure wireless network for both the data source and the speakerphone set, the earphone connects to a host server via an available wireless network.

33 Claims, 16 Drawing Sheets



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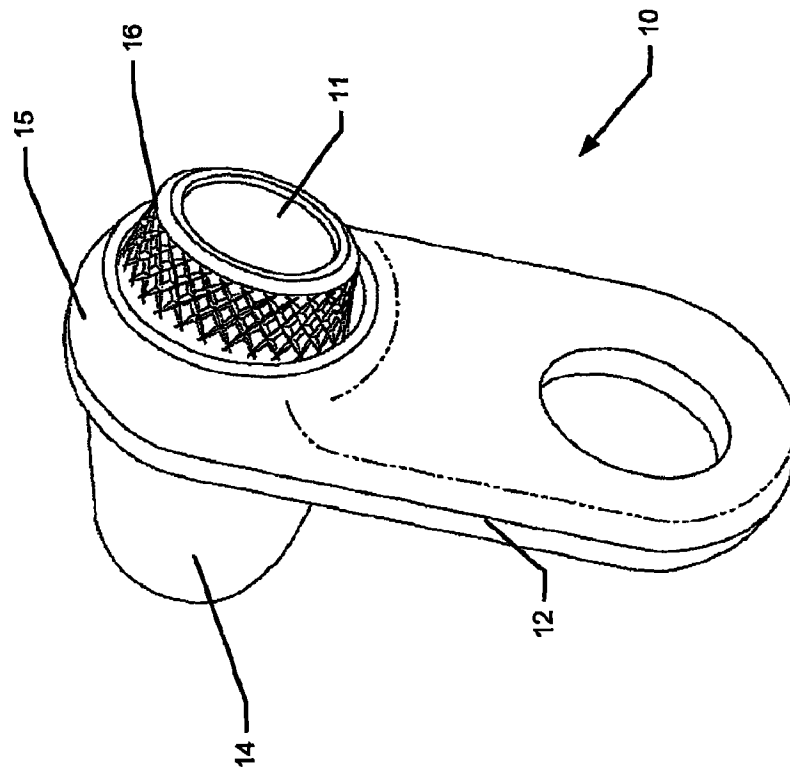


Fig. 1B

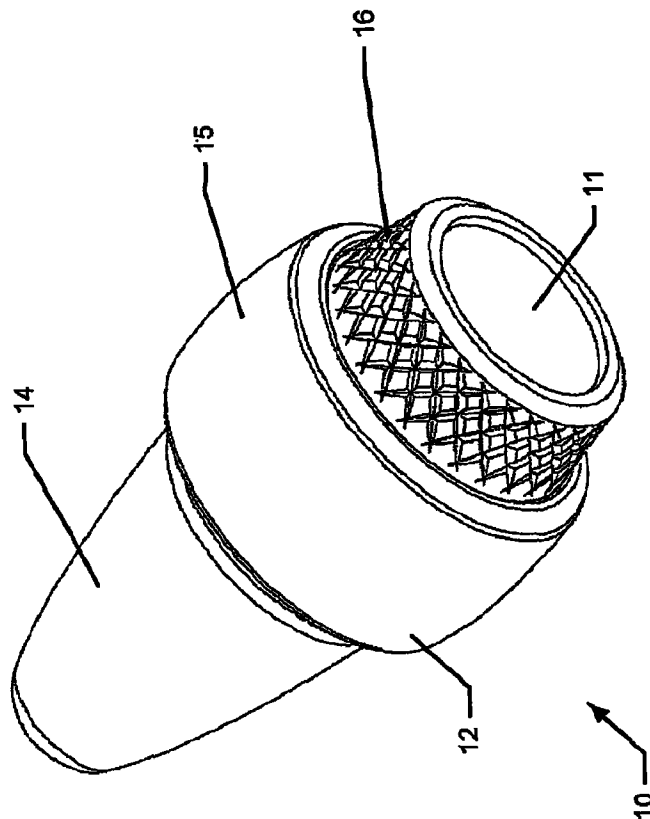


Fig. 1A

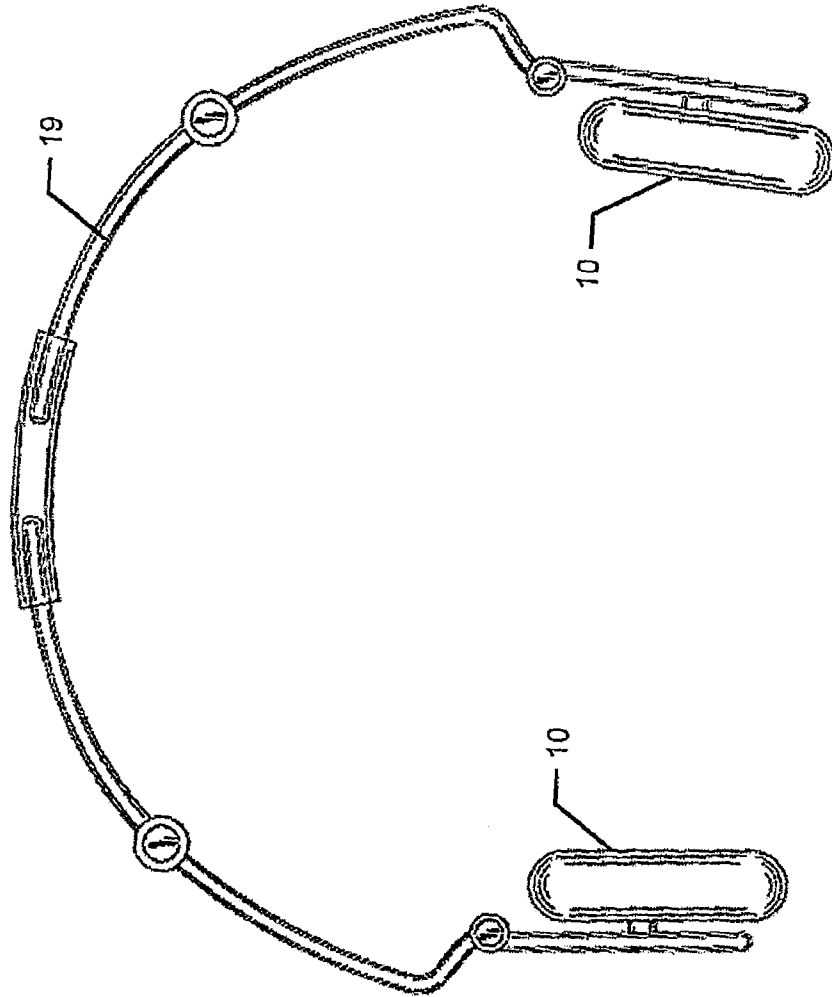


Fig. 1C

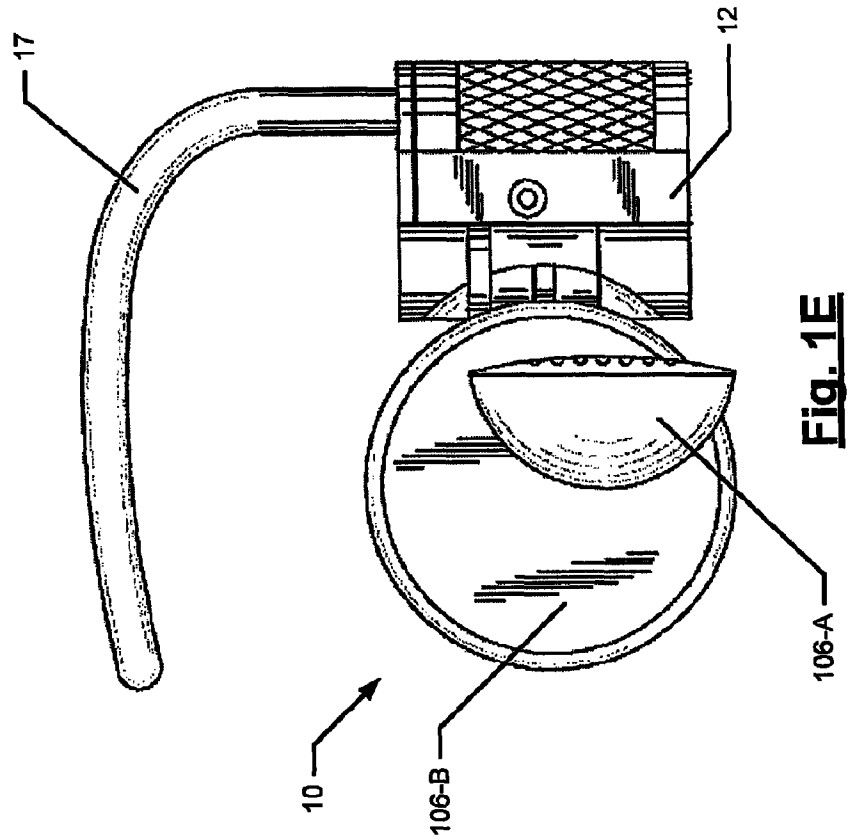


Fig. 1E

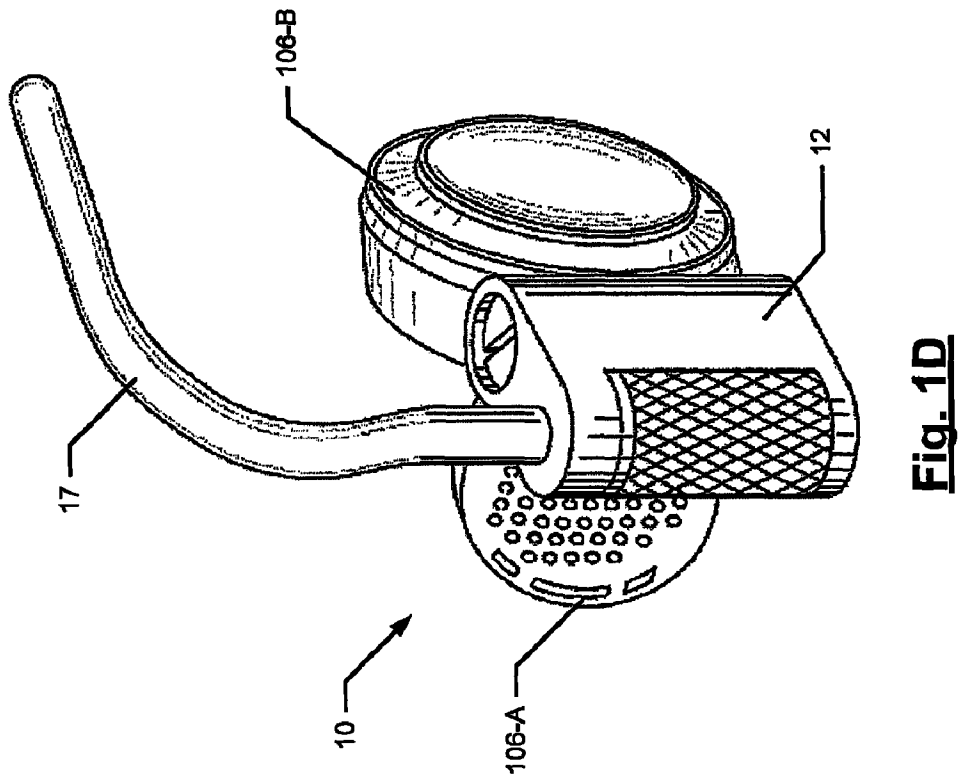


Fig. 1D

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