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Koss et al.

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(54) **SYSTEM WITH WIRELESS ACOUSTIC SPEAKERS**

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This patent is subject to a terminal disclaimer.

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Related U.S. Application Data

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H04R 1/10 (2006.01)
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(52) **U.S. Cl.**
CPC **H04R 1/1091** (2013.01); **H04R 2420/07** (2013.01)

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CPC H04R 2201/103; H04R 5/033
USPC 381/398, 77, 74, 379, 381, 309, 17, 381/111; 345/8; 455/3.06, 436, 570, 412.2, 455/553.1, 569.1, 575.2

See application file for complete search history.

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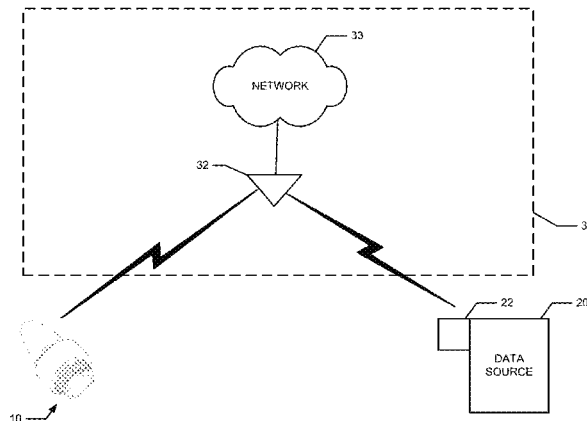
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(57) **ABSTRACT**

Apparatus comprises adapter and speaker system. Adapter is configured to plug into port of personal digital audio player. Speaker system is in communication with adapter, and comprises multiple acoustic transducers, programmable processor circuit, and wireless communication circuit. In first operational mode, processor circuit receives, via adapter, and processes digital audio content from personal digital audio player into which adapter is plugged, and the multiple acoustic transducers output the received audio content from the personal digital audio player. In second operational mode, wireless communication circuit receives digital audio content from a remote digital audio source over a wireless network, processor circuit processes the digital audio content received from remote digital audio source, and the multiple acoustic transducers output the audio content received from the remote digital audio source.

12 Claims, 16 Drawing Sheets



Related U.S. Application Data

8,571,544, which is a continuation of application No. 12/936,488, filed as application No. PCT/US2009/039754 on Apr. 7, 2009, now Pat. No. 8,190,203.

(60) Provisional application No. 61/123,265, filed on Apr. 7, 2008.

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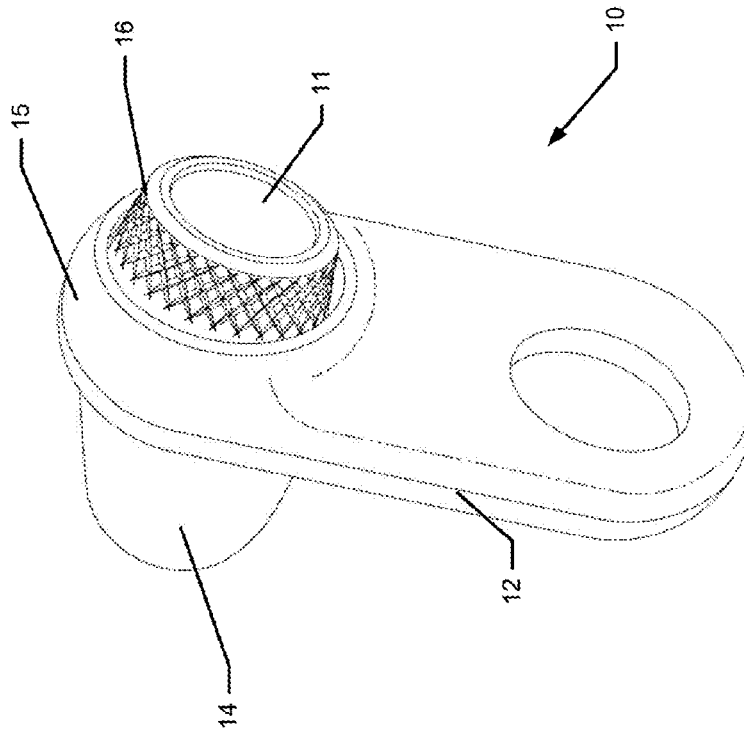


Fig. 1B

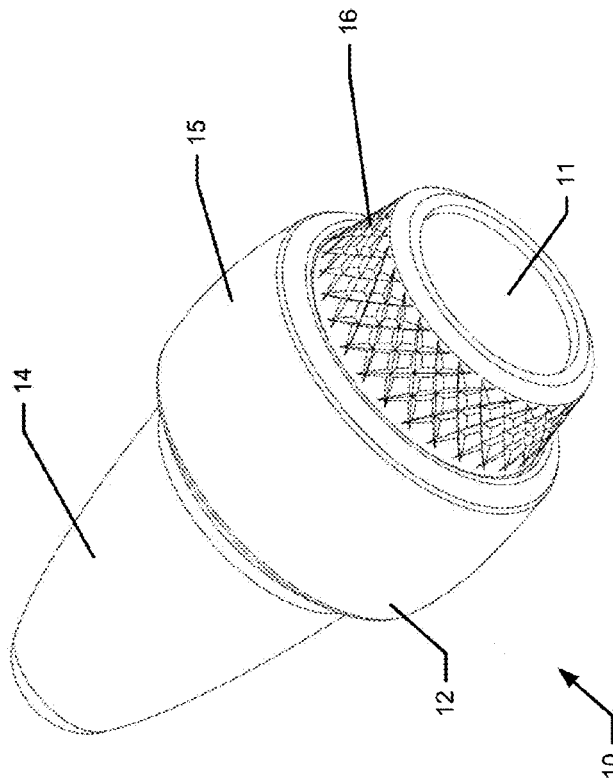


Fig. 1A

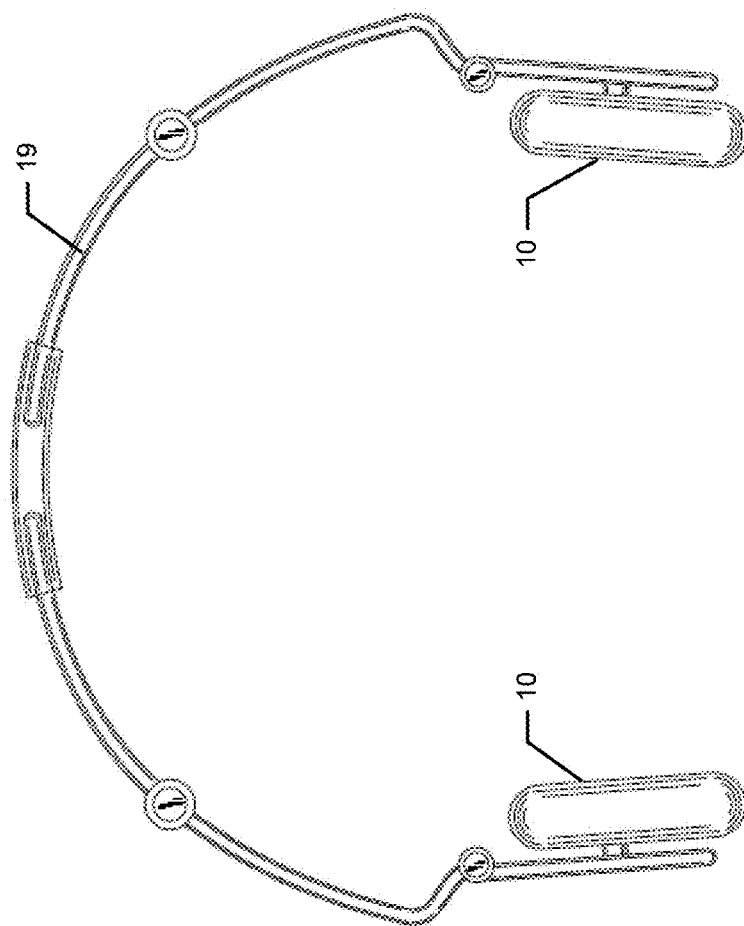
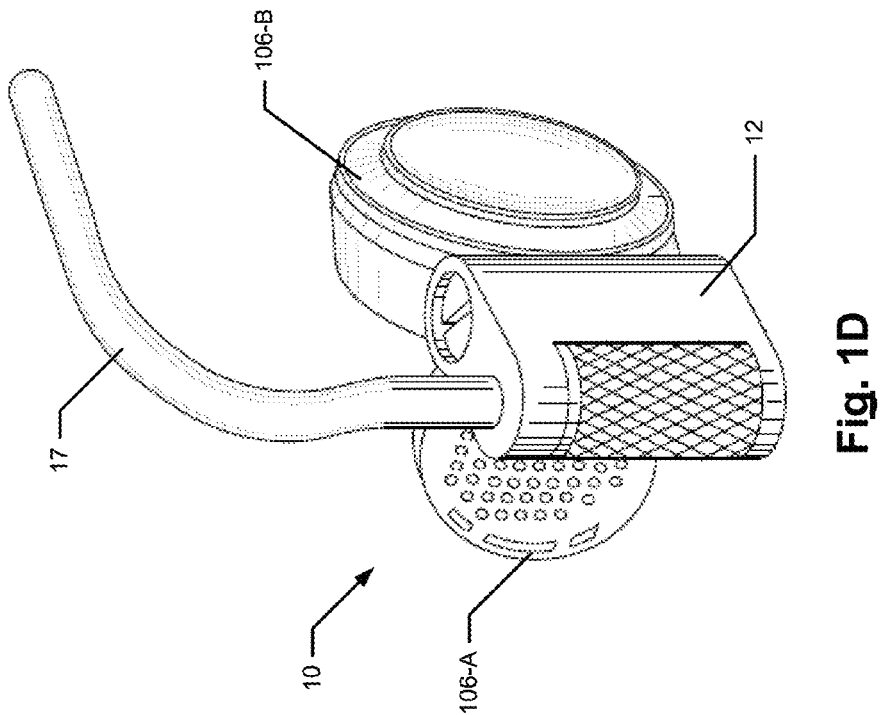
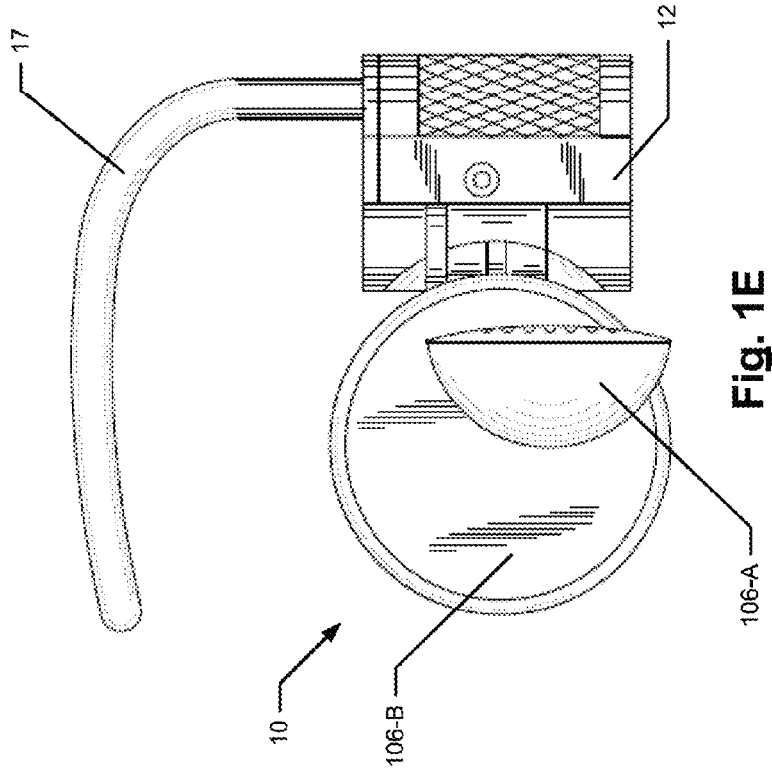


Fig. 1C



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