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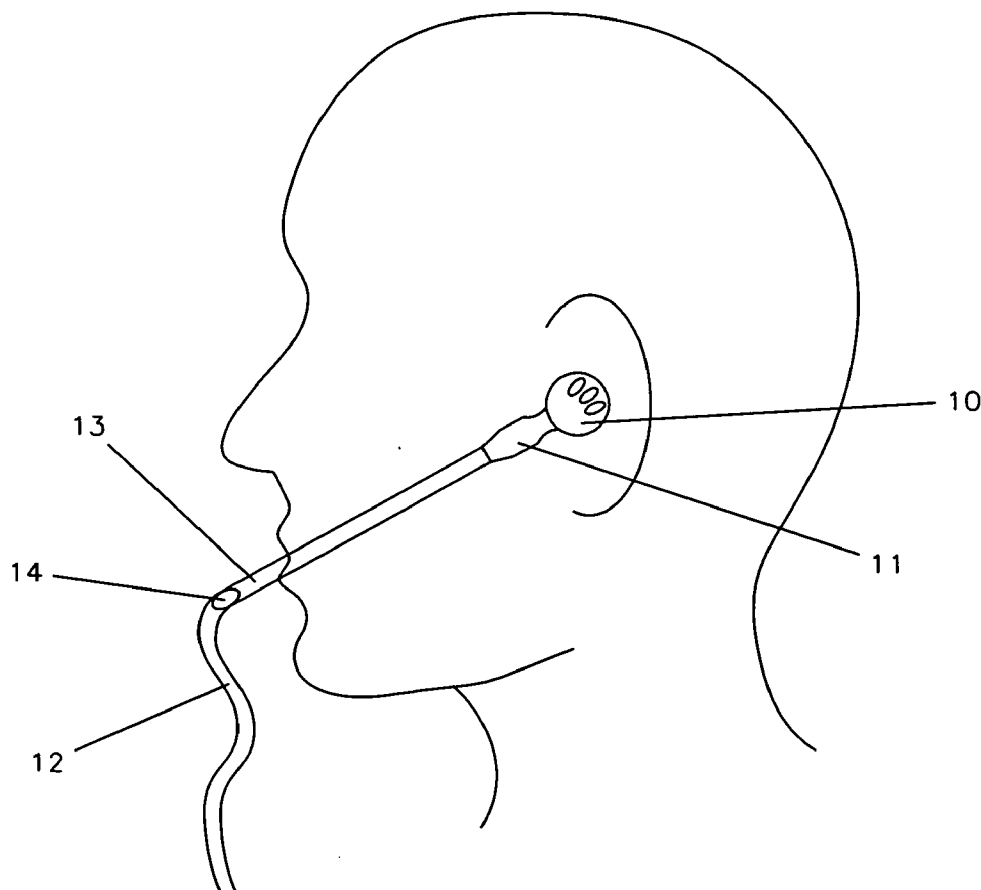
(19) **United States**(12) **Patent Application Publication**  
**Kimm et al.**(10) **Pub. No.: US 2005/0259811 A1**(43) **Pub. Date: Nov. 24, 2005**(54) **HEADSET FOR COMMUNICATION DEVICES**(76) Inventors: **Daniel Kimm**, San Diego, CA (US);  
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**ROY KIM****P.O. BOX 4122****IRVINE, CA 92616 (US)**(21) Appl. No.: **10/852,524**(22) Filed: **May 24, 2004****Publication Classification**(51) **Int. Cl.<sup>7</sup>** ..... **H04M 1/00; H04M 9/00**(52) **U.S. Cl.** ..... **379/430**(57) **ABSTRACT**

The present invention relates to headsets for communication devices, including, but not limited to, cell phones, smart

phones, PDAs, desk top computers, and lap top computers. Specifically, this invention teaches a head set which may be fully retracted and then integrated with a communication device. For a wired head set, the microphone is located in proximity to the earpiece. A flexible sound tube extends from the microphone to the user's mouth. This flexible sound tube is pliable such that the user can bend the opening of the sound tube towards the user's mouth. In addition, the sound tube is coupled to the same wire that transmits signals between the microphone/earpiece and the communication device. The coupling of the flexible sound tube to the transmission wire allows the mouthpiece to be retracted along with the wire, up and until the microphone/earpiece. For wireless headsets, a flexible sound tube connects the user's mouth with the microphone/earpiece. This flexible sound tube is retractable so as to minimize space and thus allow the wireless headset to be directly integrated into the communication device. Should the microphone be placed near the user's mouth, a flexible, retractable arm is used to connect the microphone to the earpiece.



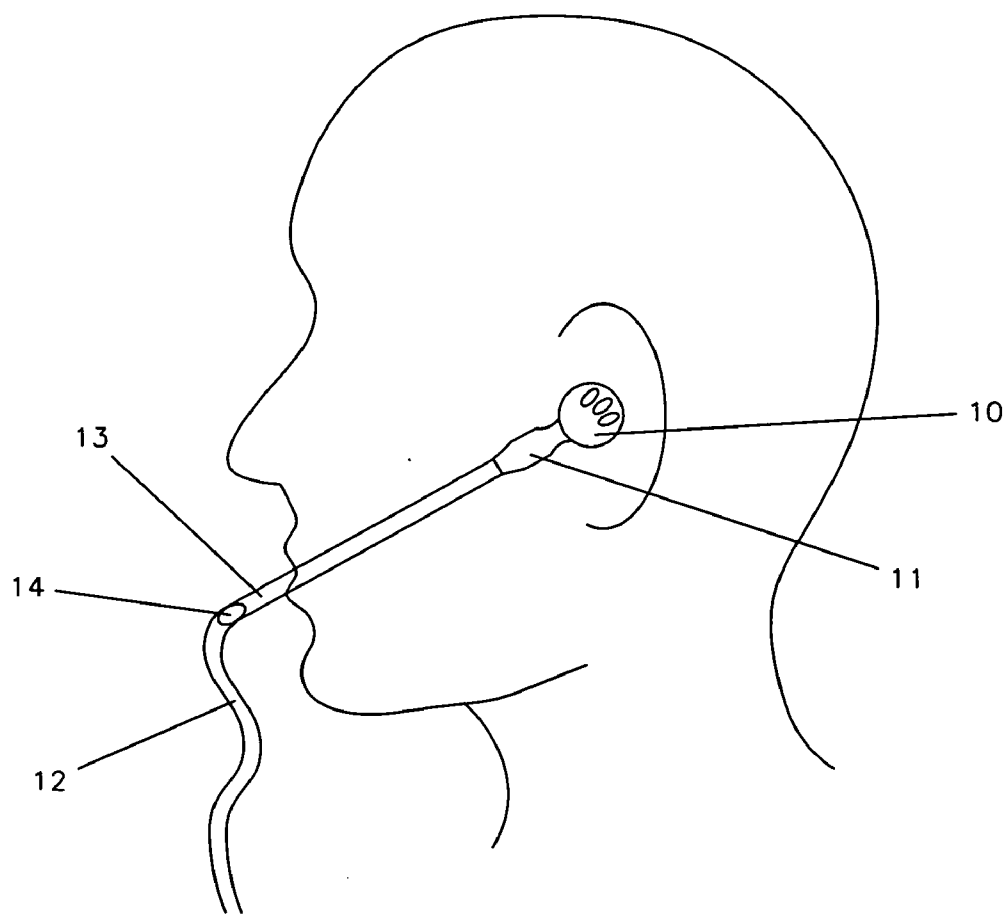
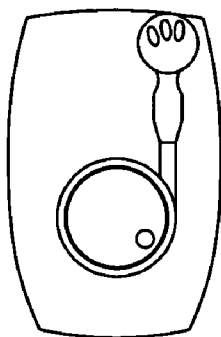


Fig. 1



CROSS SECTION OF PDA/CELL PHONE

Fig. 2

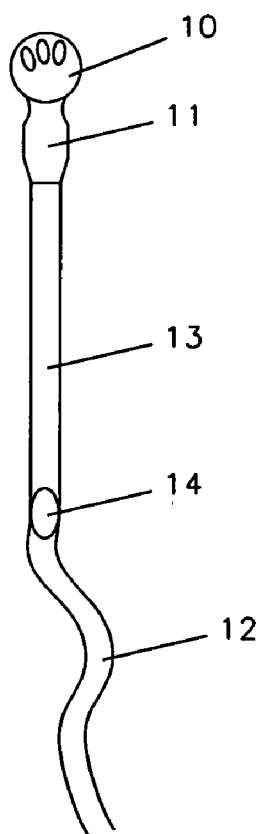


Fig. 3

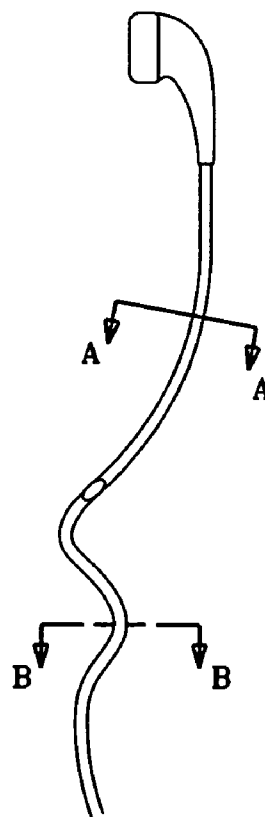


Fig. 4

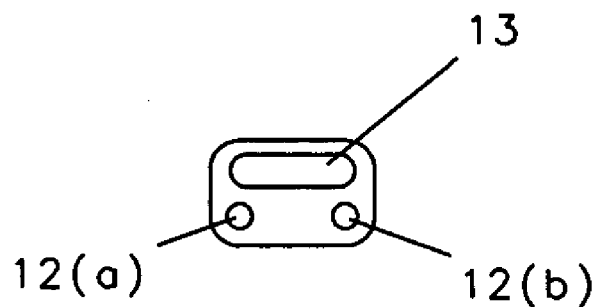


Fig. 5

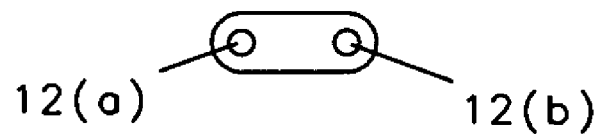


Fig. 6

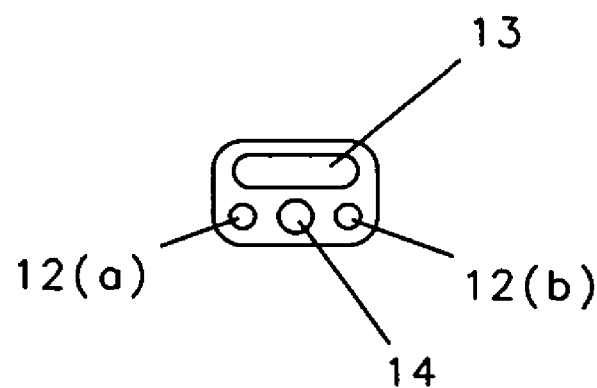


Fig. 7

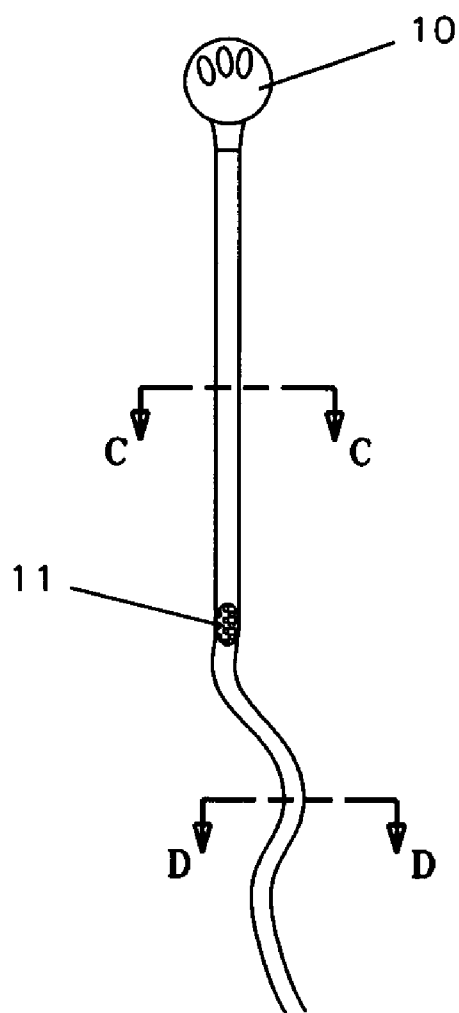
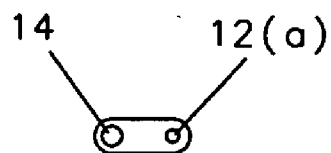
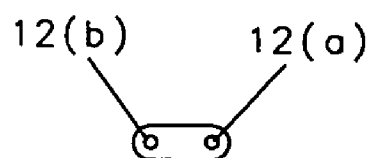


Fig. 8



SECTION C-C

Fig. 9



SECTION D-D

Fig. 10

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