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(54) **Acoustic dipole radiator for portable electronic devices**

(57) A wearable acoustic dipole radiator accessory for portable electronic devices such as mobile phones, portable cassette players, MP3 players, portable radios, or any other suitable device. The acoustic dipole radiator has two loudspeakers that are acoustically connected by an interconnection cavity. The loudspeakers do not need to contact the user's ears. The interconnection

cavity limits mutual interference between the front and backwaves of the loudspeakers. In one embodiment, the acoustic dipole radiator is implemented in a necklace. In another embodiment, the acoustic dipole radiator is implemented in a helmet. In yet another embodiment, the acoustic dipole radiator is implemented in a headset in which the loudspeakers do not contact the ears.

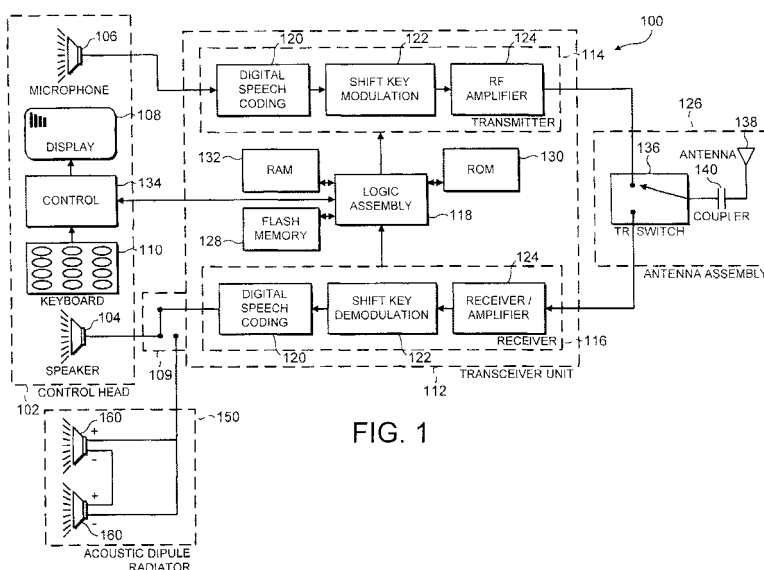


FIG. 1



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EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 25 October 2002	Examiner Zanti, P
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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Application Number
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<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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