



(12) **United States Patent**  
**Cho**

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(45) **Date of Patent:** **Oct. 31, 2006**

(54) **WIRELESS HEADSET HAVING A LOCAL AREA COMMUNICATION MODULE AND BEING DETACHABLE FROM A COMMUNICATION DEVICE**

(52) **U.S. Cl.** ..... **455/550.1; 455/575.1; 455/90.3; 455/569.2; 455/347; 379/428.02**  
(58) **Field of Classification Search** ..... **455/550.1, 455/575.1-9, 403, 379, 347, 90.3, 569.2**  
See application file for complete search history.

(75) Inventor: **Sung-Woo Cho, Suwon-shi (KR)**

(56) **References Cited**

(73) Assignee: **Samsung Electronics Co., Ltd. (KR)**

**U.S. PATENT DOCUMENTS**

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 341 days.

5,943,627 A \* 8/1999 Kim et al. .... 455/569.1  
2002/0067825 A1\* 6/2002 Baranowski et al. .... 379/430  
\* cited by examiner

(21) Appl. No.: **10/753,824**

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(22) Filed: **Jan. 8, 2004**

(74) *Attorney, Agent, or Firm*—Dilworth & Barrese LLP

(65) **Prior Publication Data**  
US 2004/0242264 A1 Dec. 2, 2004

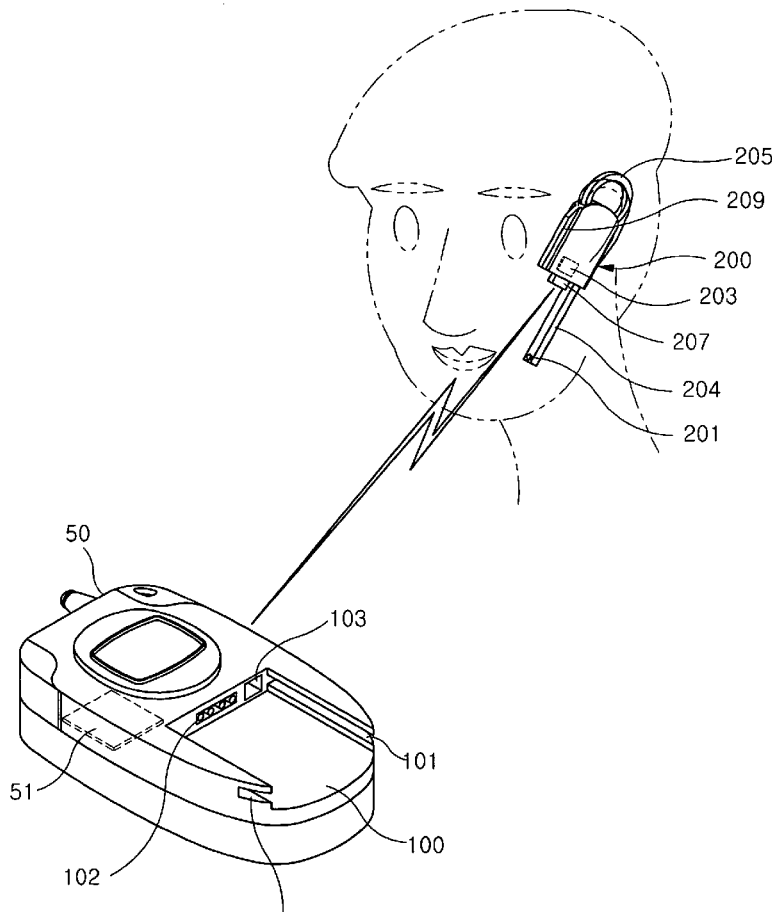
(57) **ABSTRACT**

(30) **Foreign Application Priority Data**  
Jan. 9, 2003 (KR) ..... 10-2003-0001455

Disclosed is a wireless headset apparatus using a local area communication, comprising an attachment recess formed at a designated position of a communication equipment, and a wireless headset detachably attached to the attachment recess.

(51) **Int. Cl.**  
**H04M 1/00** (2006.01)

**11 Claims, 8 Drawing Sheets**



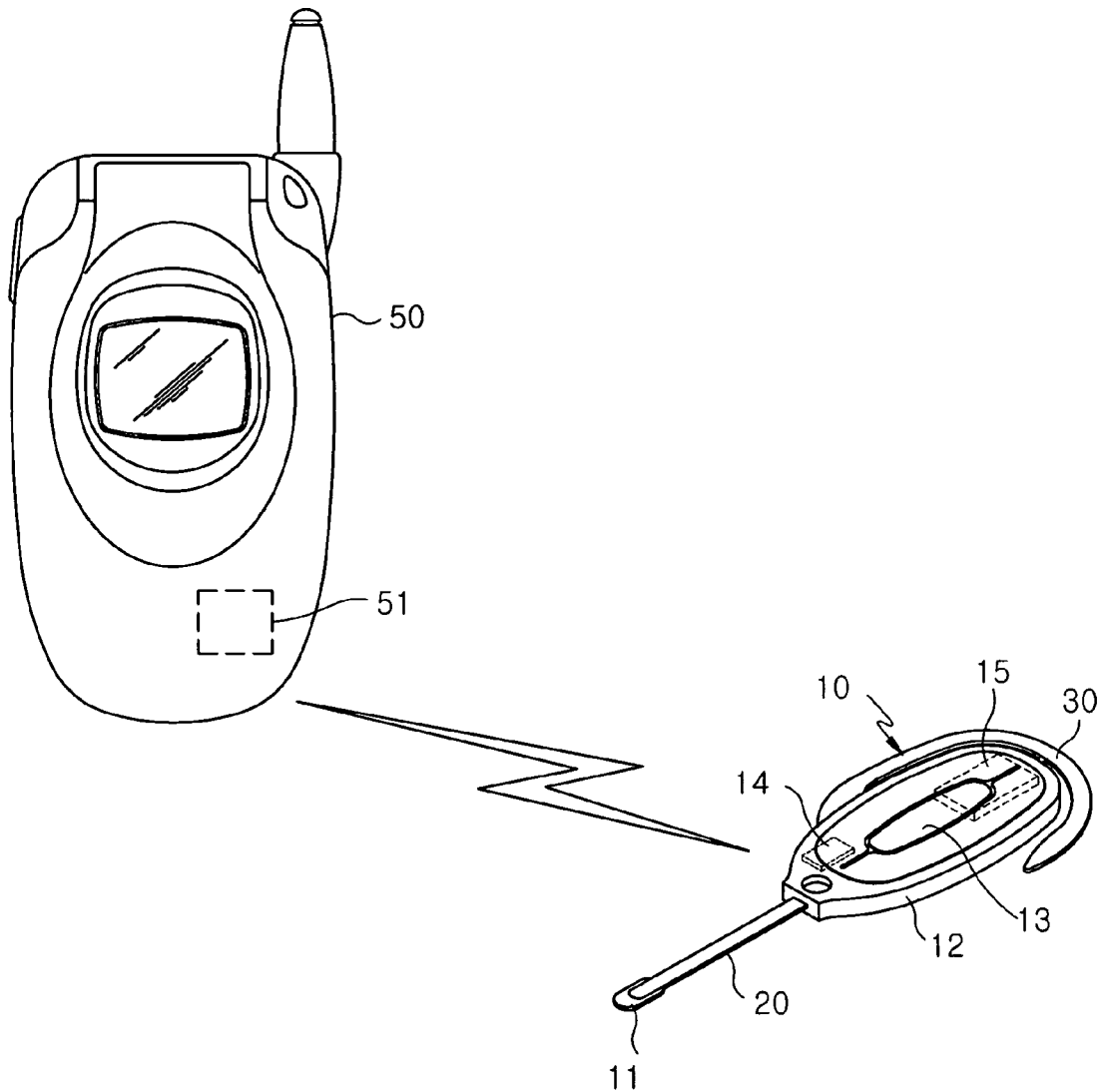


FIG. 1  
(PRIOR ART)

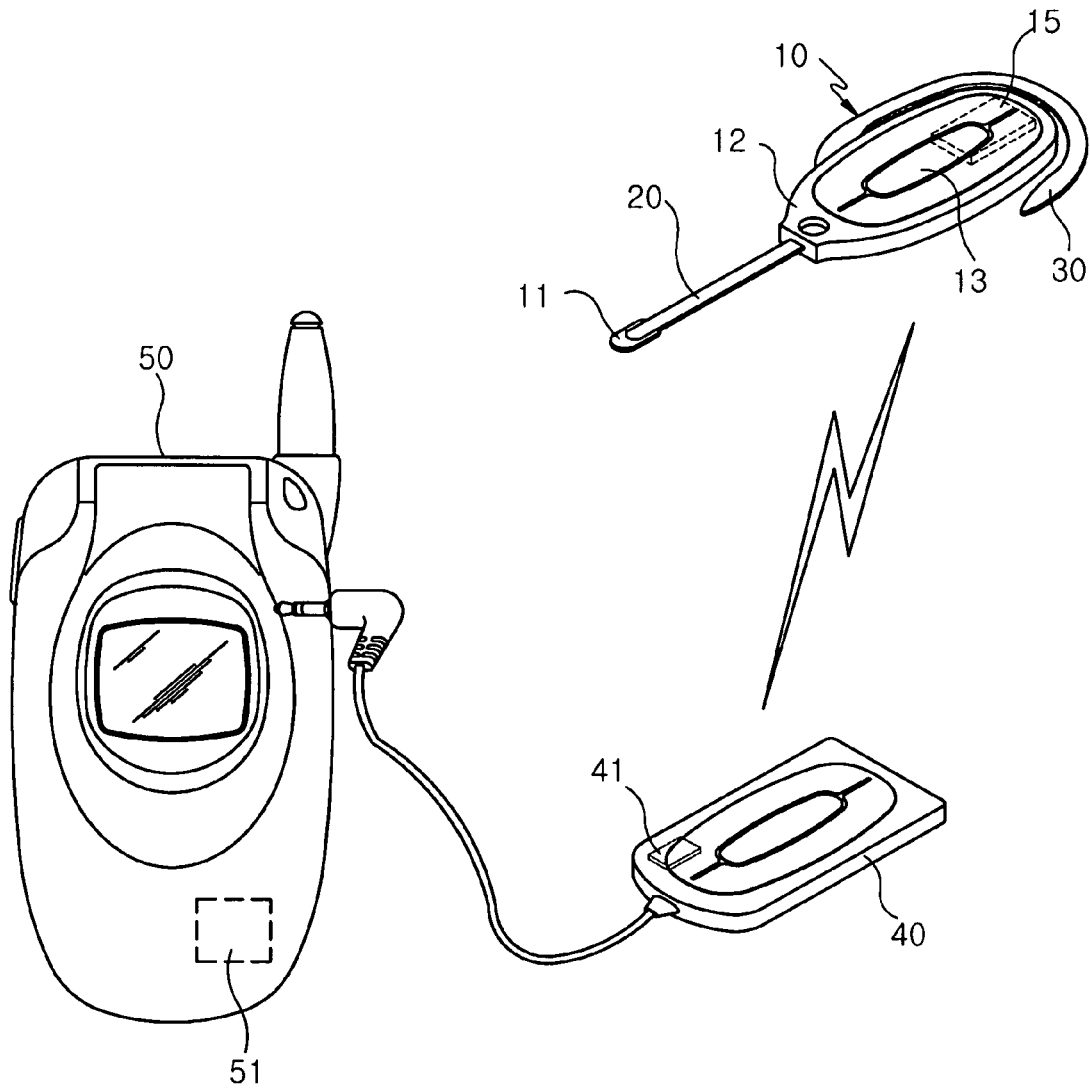


FIG. 2  
(PRIOR ART)

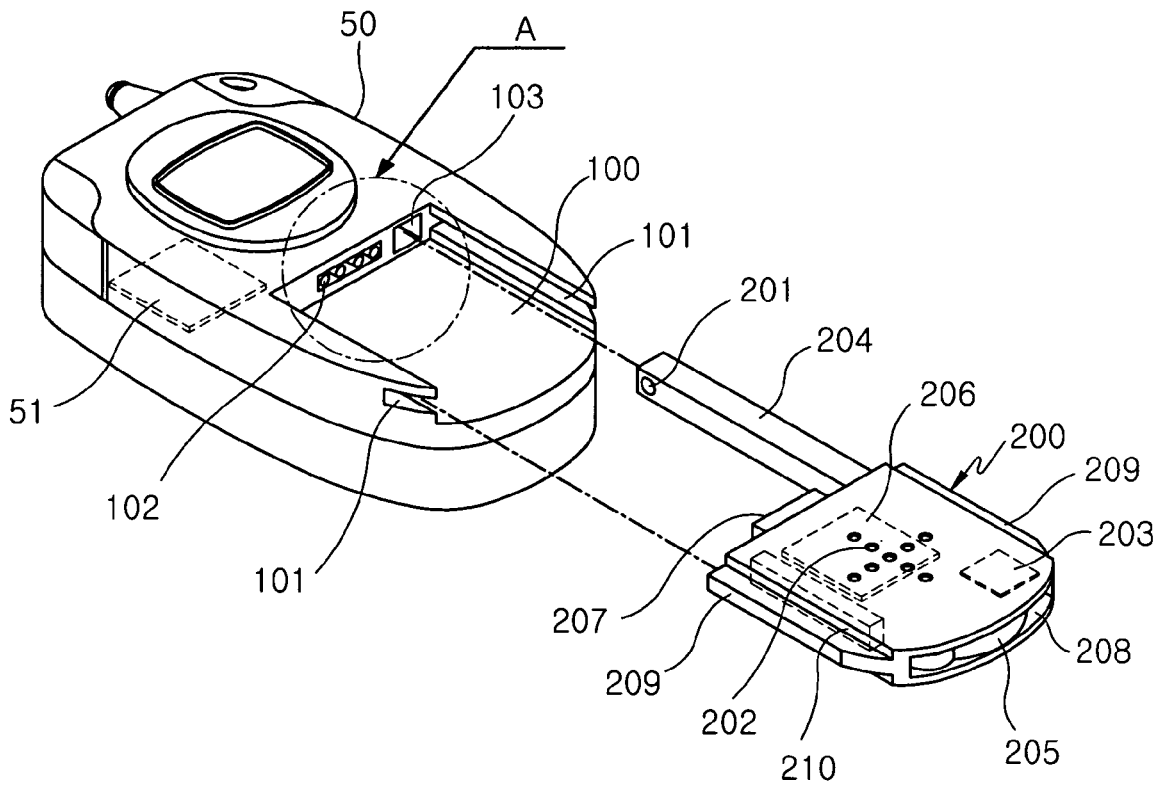


FIG. 3

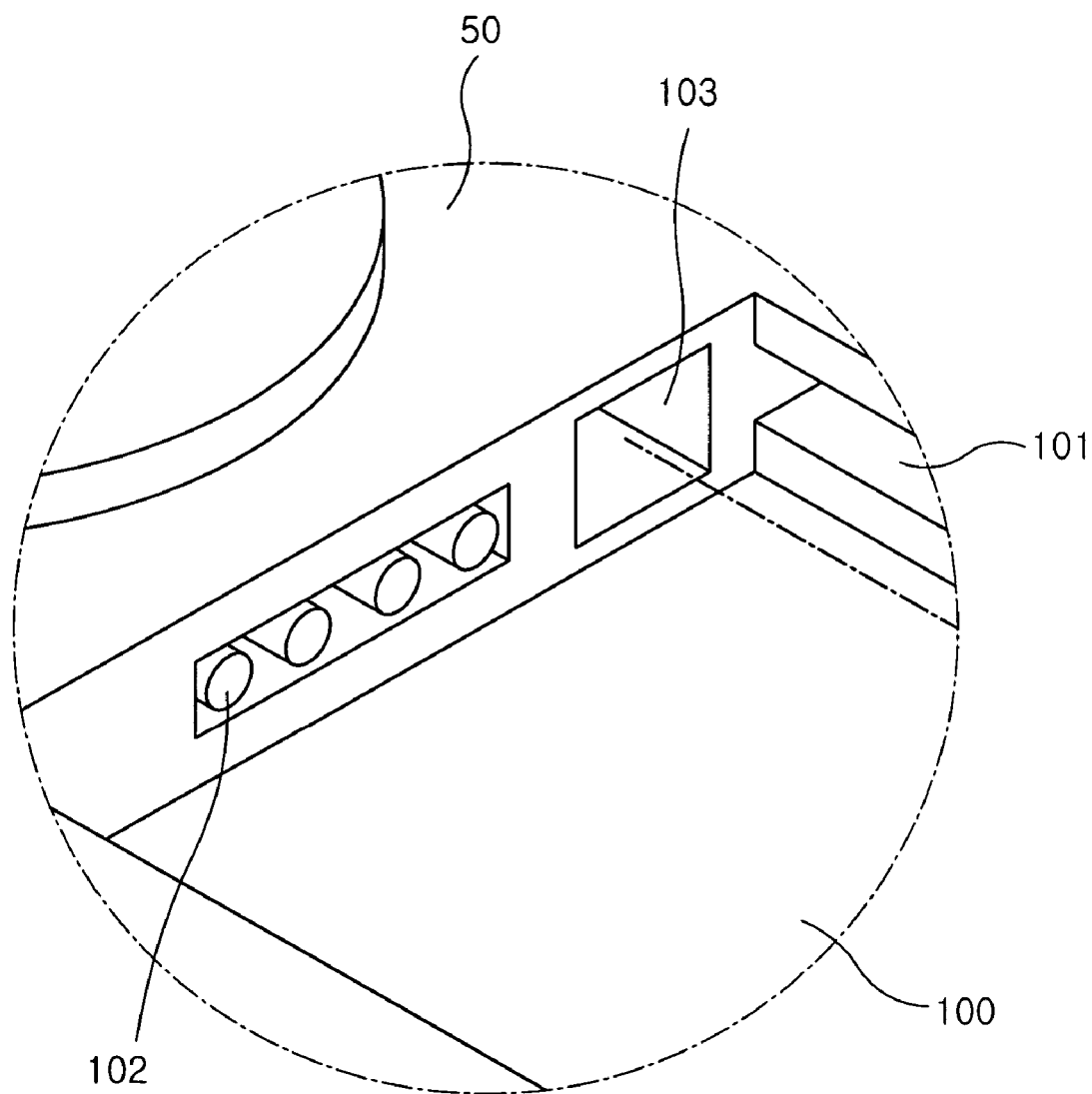


FIG. 4

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