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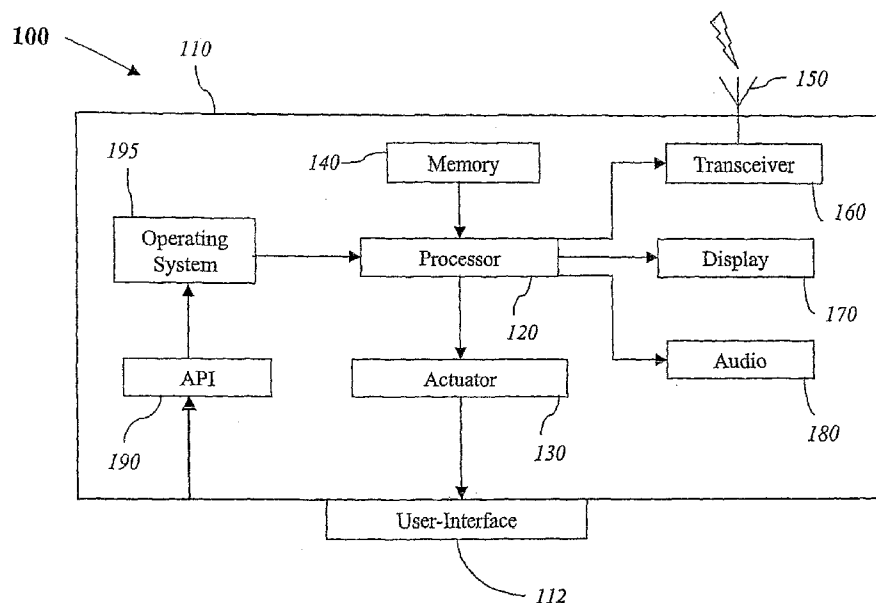
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[Continued on next page]

(54) Title: METHODS AND SYSTEMS FOR PROVIDING HAPTIC MESSAGING TO HANDHELD COMMUNICATION DEVICE



(57) Abstract: Embodiments of the invention relate to methods and systems for providing customized "haptic messaging" to users of handheld communication devices in a variety of applications. In one embodiment, a method of providing haptic messaging to a handheld communication device (12, fig. 1) includes: associating an input signal (20) with an event (new e-mail); determining a source of the event and selecting the control signal (32) based on the determination; and outputting a control signal to an actuator (30) coupled to the handheld communication device. The control signal is configured to cause the actuator to output a haptic effect associated with the event. An event in the above may be a connection event.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/35626

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G09G 5/00(2006.01)

USPC: 345/156,173;455/556.2

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 345/156,173; 455/556.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,819,922 B1(JANZ) 16 November 2004 (16.11.2004), figure 1, column 2, lines 52-55,	1-13
---	column 3, lines 53-63, column 4, lines 45-50.	-----
Y		14
Y	US 2002/0012323 A1(PETITE et al.) 31 January 2002 (31.01.2002), figure 5, paragraph 0044 and 0045.	14

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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Continuation of B. FIELDS SEARCHED Item 3:
-input and event and (haptic adj effect) and actuator and 345/156.
-(touchscreen) and (lookup table LUT).