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(12) United States Patent Svensson

(54) METHOD AND APPARATUS FOR **AUTHENTICATING A CHARGING UNIT BY** A PORTABLE BATTERY-OPERATED **ELECTRONIC DEVICE**

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- (51) Int. Cl.⁷ H01M 10/46
- (52)
- (58) Field of Search 320/106, 110,

320/114, 115, 135, DIG. 12

(56)**References Cited**

U.S. PATENT DOCUMENTS

5,349,535 A	9/1994	Gupta 364/483
5,367,242 A	* 11/1994	Hulman
5,369,352 A	11/1994	Toepfer et al 320/56
5,420,493 A	5/1995	Hargadon et al 320/15
5,506,490 A	4/1996	DeMuro 320/23
5,592,069 A	1/1997	Dias et al 320/30
5,596,567 A	1/1997	deMuro et al 320/5
5,602,454 A	2/1997	Arakawa et al 320/2
5,717,307 A	2/1998	Barkat et al 320/5
5,729,115 A	3/1998	Wakefield 320/2
5,734,252 A	3/1998	Griffin et al 320/2
5,754,029 A	5/1998	Mann et al 320/106

US 6,429,622 B1 (10) Patent No.: Aug. 6, 2002

(45) Date of Patent:

5,859,522 A 1/1999 Theobald 320/106 5,867,006 A 2/1999 Dias et al. 320/106 5,963,012 A 10/1999 Garcia et al. 320/106 6,031,353 A * 2/2000 Banyas et al. 6,295,002 B1 * 9/2001 Fukuda

FOREIGN PATENT DOCUMENTS

EP	0684680 A1	11/1995
WO	WO 95/06994	3/1995

OTHER PUBLICATIONS

EPO; European Standard Search Report; Jun. 20, 2001.

* cited by examiner

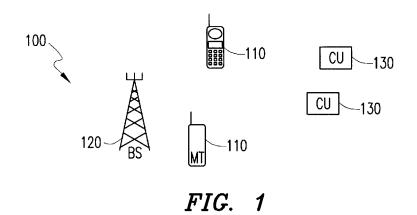
Primary Examiner-Edward H. Tso (74) Attorney, Agent, or Firm-Jenkens & Gilchrist, P.C.

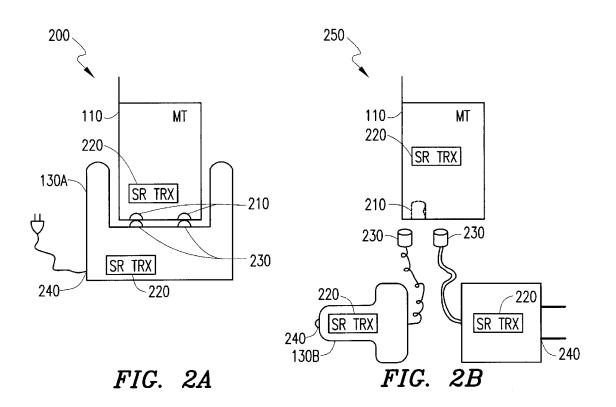
(57)ABSTRACT

A portable battery-operated electronic device authenticates/ identifies a charging unit in order to prevent an incompatible and/or poorly designed or constructed charging unit from possibly damaging the portable battery-operated electronic device. The authentication/identification is effectuated over a wireless interface (e.g., using Bluetooth transceivers) when a portable battery-operated electronic device detects connection to a charging unit. The portable battery-operated electronic device requests data related to source and/or compatibility of the charging unit. If data is received and it indicates a proper source and/or compatibility, the portable battery-operated electronic device permits the charging. Otherwise, the portable battery-operated electronic device executes an action, such as preventing charging and/or memorializing information about the risky charging.

30 Claims, 4 Drawing Sheets

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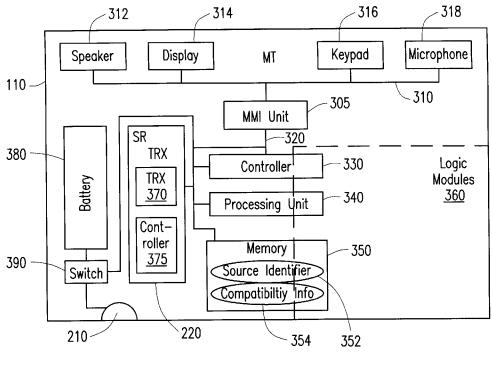
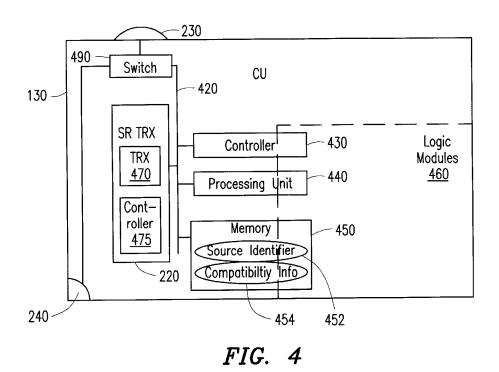
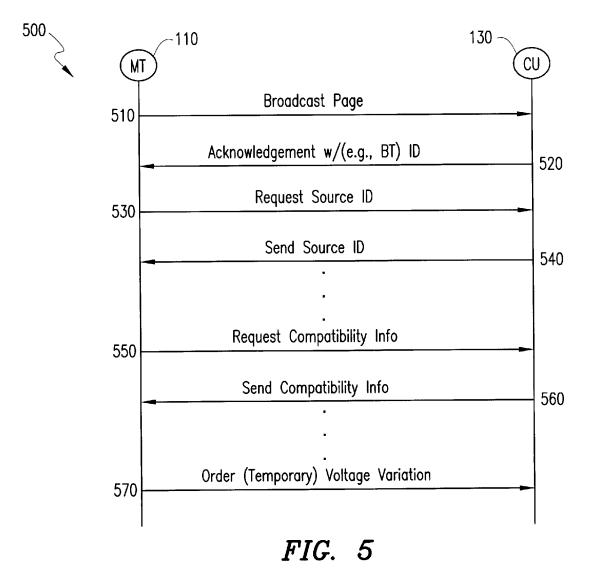


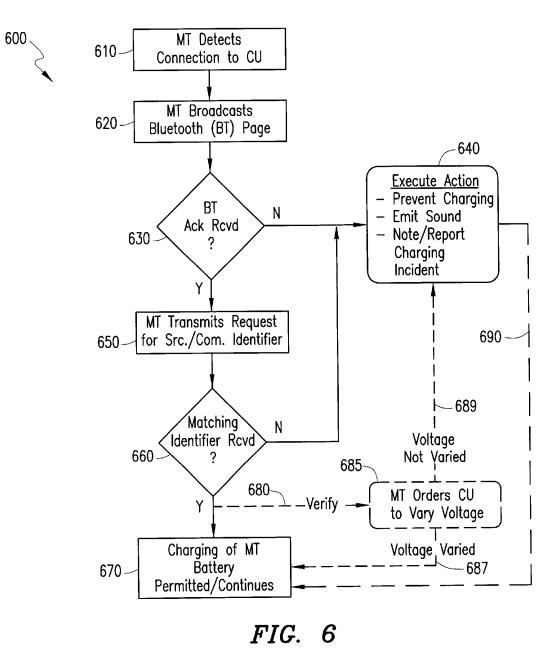
FIG. 3



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