

Title (en)
PAGER WATCH SYSTEM UTILIZING TIME SLOT COMMUNICATION

Publication
EP 0184606 A3 19880330 (EN)

Application
EP 85107635 A 19850620

Priority
US 67860384 A 19841205

Abstract (en)
[origin: EP0184606A2] A method and apparatus for transmitting paging and absolute time information to, and receiving such information at, a remote portable electronic timepiece and pager unit during a short time slot assigned to the pager unit is disclosed. In the pager unit, an oscillator is coupled to a timer which produces a time display. These functions are constantly powered. The timer periodically causes power to be supplied to a receiver and message decoding components of the pager unit during a short time slot in which transmitted data is to be received. The receiver detects and reconstitutes a transmitted signal. The transmitted signal is processed through a decoder which extracts paging and time update data. If the paging data includes the pager unit's ID number, the unit indicates that a page has been received. The time update data extracted from the transmitted signal is used to synchronize a timer in the pager unit. The timer provides an accurate time indication for the watch function. The same timer additionally determines when power is supplied to the pager unit's receiver and message decoder components so that they will be powered during the short time slot.

IPC 1-7
G04G 1/00; **G08B 3/10**

IPC 8 full level
G04G 21/04 (2013.01); **G08B 3/10** (2006.01); **H04M 3/42** (2006.01); **G08B 5/22** (2006.01); **H04B 7/26** (2006.01); **H04W 52/02** (2009.01); **H04W 84/02** (2009.01)

CPC (source: EP)
G04G 21/04 (2013.01); **G04R 20/14** (2013.01); **G04R 20/20** (2013.01); **G08B 3/1016** (2013.01); **G08B 5/222** (2013.01); **G08B 5/223** (2013.01); **G08B 5/228** (2013.01)

Citation (search report)
• [A] FR 2232006 A1 19741227 - CITIZEN WATCH CO LTD [JP]
• [A] US 4086537 A 19780425 - ASAKAWA SHIGERU, et al
• [A] EP 0124788 A1 19841114 - NEC CORP [JP]
• [A] DE 2918531 A1 19801113 - PROVERA GMBH
• [A] US 3861134 A 19750121 - CHACON MANUEL FRANK, et al
• [A] DE 2606691 A1 19770901 - BLUETHGEN BJOERN
• [E] EP 0177971 A2 19860416 - NEC CORP [JP]

Cited by
GB2201266A; US4862516A; US4817196A; KR100740191B1; FR2701583A1; DE19712914A1; FR2682247A1; US8796882B2; US7356319B2; US7107029B2; WO2010141896A3; WO8805214A1; WO8805184A1; WO9632703A1; WO9418652A1; WO8805213A1; WO2005039079A1; WO9014721A1

Designated contracting state (EPC)
CH DE FR GB LI

DOCDB simple family (publication)
EP 0184606 A2 19860618; **EP 0184606 A3 19880330**; CA 1262385 A 19891017; ES 549571 A0 19871116; ES 8800760 A1 19871116; IT 1183035 B 19871005; IT 8548870 A0 19851203; JP H0588574 B2 19931222; JP S61136330 A 19860624

DOCDB simple family (application)
EP 85107635 A 19850620; CA 496881 A 19851204; ES 549571 A 19851204; IT 4887085 A 19851203; JP 17870685 A 19850815