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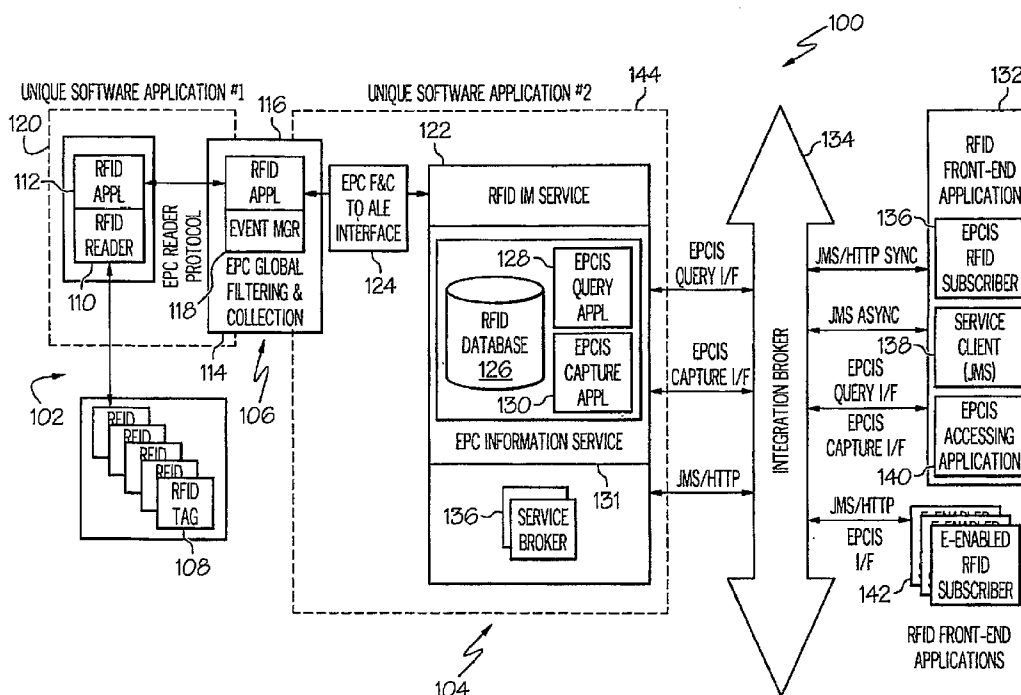
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(54) Title: DATA SYNCHRONIZATION AND INTEGRITY FOR INTERMITTENTLY CONNECTED SENSORS



(57) Abstract: A system for data synchronization of intermittently connected sensors may include an RFED system and an information management system. The system may also include an application to insure integrity of data retrieved or posted between the RFID system and the information management system.



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A. CLASSIFICATION OF SUBJECT MATTER

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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)

G06Q G06F G06K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006/036978 A (EPCSOLUTIONS INC [US]) 6 April 2006 (2006-04-06) page 2, last line - page 4, line 17; figures 1-3	1, 39
X	US 2006/031293 A1 (THOMMES CHRISTOPH A [DE] ET AL) 9 February 2006 (2006-02-09) the whole document	1-39
X	WO 2006/035430 A (MENTA NETWORKS LTD [IL]; SAMBOURSKY JACOB [IL]; RUTSHTEIN URI [IL]) 6 April 2006 (2006-04-06) abstract	1-39
X	JP 2005 339238 A (NIPPON TELEGRAPH & TELEPHONE) 8 December 2005 (2005-12-08) abstract	1, 2

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

☒ See patent family annex.

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INTERNATIONAL SEARCH REPORT

information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2006036978	A	06-04-2006	NONE	
US 2006031293	A1	09-02-2006	NONE	
WO 2006035430	A	06-04-2006	US 2008055085 A1	06-03-2008
JP 2005339238	A	08-12-2005	NONE	