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(54) **Title:** INTEGRATED DETECTION POINT PASSIVE RFID TAG READER AND EVENT TIMING SYSTEM AND METHOD

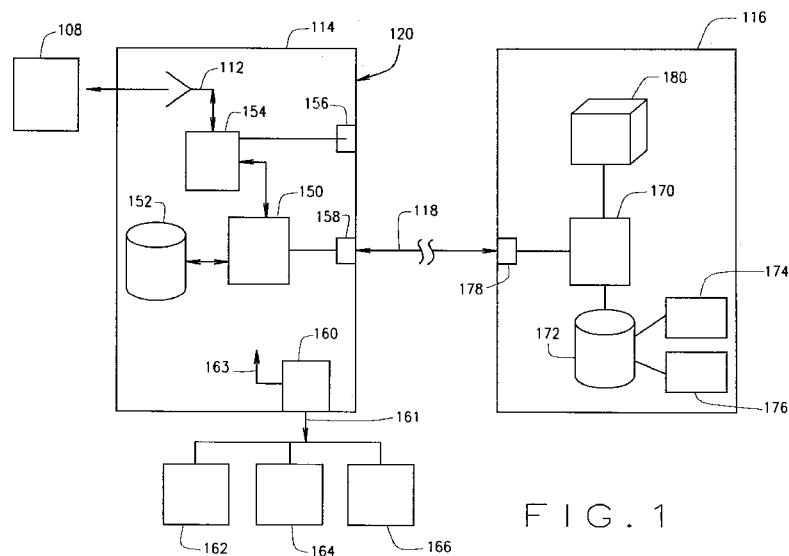


FIG. 1

(57) **Abstract:** A tag reader system, method and timing system for determining a time of detection of a passive RFID tag relative to a detection line located along a route traveled by the RFID tag.

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**A. CLASSIFICATION OF SUBJECT MATTER****G07C 1/24(2006.01)i, G06K 17/00(2006.01)I**

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)

G07C 1/24; G08B 13/22; G08B 13/14; H04Q 5/22

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

Korean utility models and applications for utility models  
Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) &amp; Keywords: rfid, tag, reader, module, clock, memory, timing, system

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages       | Relevant to claim No. |
|------------|--|-----------------------|
| A          | US 2009-0184806 A1 (KIA ARASH) 23 July 2009<br>See abstract ; Figs 5a-5f ; [0056]-[0067] | 1-43                  |
| A          | US 2008-0316032 A1 (KIA ARASH) 25 December 2008<br>See abstract ; Fig 1; [0021H0025]     | 1-43                  |
| A          | US 2006-0097847 A1 (Bervoets et al.) 11 May 2006<br>See abstract ; Fig 4; [0040]-[0046]  | 1-43                  |

 Further documents are listed in the continuation of Box C. See patent family annex.

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| Patent document cited in search report | Publication date | Patent family member(s)              | Publication date         |
|--|------------------|--------------------------------------|--------------------------|
| US 2009-0 184806 A1                    | 23.07.2009       | EP 2009595 A1<br>US 2008-03 16032 A1 | 31.12.2008<br>25.12.2008 |
| US 2008-03 16032 A1                    | 25.12.2008       | EP 2009595 A1<br>US 2009-0184806 A1  | 31.12.2008<br>23.07.2009 |
| US 2006-0097847 A1                     | 11.05.2006       | None                                 |                          |