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[Continued on next page]

(54) Title: EMBEDDED SECURITY SYSTEM FOR ENVIRONMENT-CONTROLLED TRANSPORTATION CONTAINERS AND METHOD FOR DETECTING A SECURITY RISK FOR ENVIRONMENT-CONTROLLED TRANSPORTATION CONTAINERS

(57) Abstract: An embedded security system for an environment-controlled trailer including a transportation refrigeration unit. The security system includes a plurality of sensors mounted to the trailer and a communication device embedded in the transportation refrigeration unit of the trailer, the communication device being configured to receive data from the plurality of sensors, and to send the received data to a controller being remote from the trailer. The controller is configured to monitor the security status of the trailer and to determine a security risk at the trailer based, at least in part, on the received data.

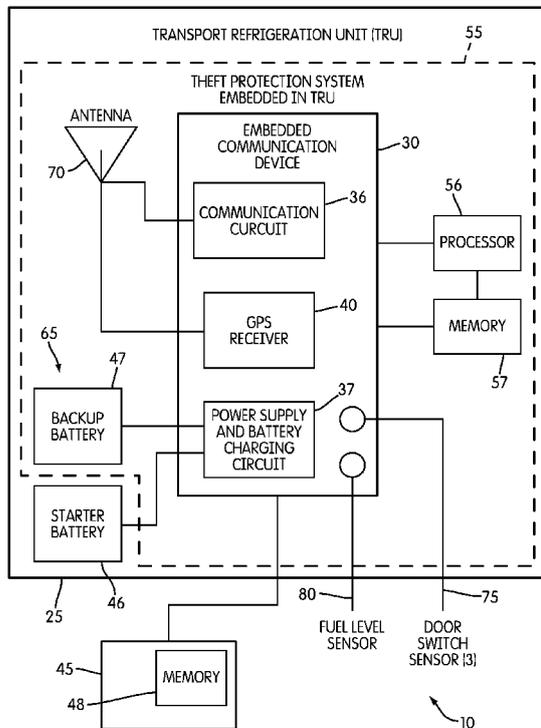


FIG. 3

WO 2012/166317 A3



TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

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PCT/US2012/037414**A. CLASSIFICATION OF SUBJECT MATTER***G08B 25/10(2006.01)i, G08B 21/18(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)

G08B 25/10; H04W 24/00; G05B 19/00; G08B 1/08; G08B 17/00; G05D 23/00

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) & Keywords: , ,

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2009-0228155 A1 (TIMOTHY P. SLIFKIN et al.) 10 September 2009 See abstract; paragraphs [0011], [0013], [0014] and figure 1.	1-24
A	US 05424720 A (ROBERT KIRKPATRICK) 13 June 1995 See abstract; column 5, line 52-column 6, line 27 and figures 1, 2.	1-24
A	US 2009-0061897 A1 (PATRICK HAMILTON et al.) 05 March 2009 See abstract; paragraphs [0115]-[0140]; claim 1 and figures 2, 2A, 2B.	1-24
A	US 2006-0187033 A1 (LARRY L. HALL et al.) 24 August 2006 See abstract; paragraphs [0062], [0067] and figures 4, 5.	1-24

 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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