

Title (en)

SYSTEMS AND METHODS FOR OBJECT LOCALIZATION AND PATH IDENTIFICATION BASED ON RFID SENSING

Title (de)

SYSTEME UND VERFAHREN ZUR OBJEKTORTUNG UND WEGIDENTIFIKATION AUF GRUNDLAGE EINER RFID-ERFASSUNG

Title (fr)

SYSTÈMES ET PROCÉDÉS DE LOCALISATION D'OBJET ET D'IDENTIFICATION DE TRAJET SUR LA BASE D'UNE DÉTECTION D'IDENTIFICATION PAR RADIOFRÉQUENCE (RFID)

Publication

**EP 3011501 A4 20170419 (EN)**

Application

**EP 14813417 A 20140619**

Priority

- US 201313922010 A 20130619
- US 201313921933 A 20130619
- US 201313921953 A 20130619
- US 201313921976 A 20130619
- US 2014043109 W 20140619

Abstract (en)

[origin: WO2014205174A1] A networked radio frequency identification system includes a plurality of radio frequency identification (RFID) tag readers, a computer in signal communication with the RFID tag readers over a network, and a software module for storage on and operable by the computer that localizes RFID tags based on information received from the RFID tag readers using a network model having endpoints and oriented links. In an additional example, at least one of the RFID tag readers includes an adjustable configuration setting selected from RF signal strength, antenna gain, antenna polarization, and antenna orientation. In a further aspect, the system localizes RFID tags based on hierarchical threshold limit calculations. In an additional aspect, the system controls a locking device associated with an access point based on localization of an authorized RFID tag at the access point and reception of additional authorizing information from an input device.

IPC 8 full level

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CPC (source: EP)

**G01S 13/751** (2013.01); **G01S 13/87** (2013.01)

Citation (search report)

- [X1] US 2009027203 A1 20090129 - CRISTACHE LUCIAN [US]
- [A] US 2006022815 A1 20060202 - FISCHER JEFFREY H [US], et al
- [X1] US 2009027165 A1 20090129 - CRISTACHE LUCIAN [US]
- [A] WO 2012080787 A1 20120621 - NOKIA CORP [FI], et al
- See references of WO 2014205174A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

**US 2014043109 W 20140619**; CA 2952773 A 20140619; CA 3200698 A 20140619; EP 14813417 A 20140619; HK 16111929 A 20161017