

Title (en)
A REAL-TIME LOCATION SYSTEM (RTLS) THAT USES A COMBINATION OF EVENT SENSORS AND RSSI MEASUREMENTS TO DETERMINE ROOM-AND-BAY-LOCATION OF TAGS

Title (de)
ECHTZEITORTUNGSSYSTEM (RTLS), DAS EINE KOMBINATION AUS EREIGNISSENSOREN UND RSSI-MESSUNGEN VERWENDET, UM ZIMMER-UND-GESTELL-STANDORT VON ETIKETTEN ZU BESTIMMEN

Title (fr)
SYSTÈME DE LOCALISATION EN TEMPS RÉEL (RTLS) QUI UTILISE UNE COMBINAISON DE CAPTEURS D'ÉVÉNEMENTS ET DE MESURES DE RSSI POUR DÉTERMINER LA LOCALISATION DE PIÈCE ET TRAVÉE D'ÉTIQUETTES

Publication
EP 3807853 A1 20210421 (EN)

Application
EP 19822878 A 20190618

Priority

- US 201816010732 A 20180618
- US 201816010747 A 20180618
- US 201816214890 A 20181210
- US 201816214979 A 20181210
- US 201916241758 A 20190107
- US 201916241737 A 20190107
- US 2019037667 W 20190618

Abstract (en)
[origin: WO2019246049A1] A real-time location system (RTLS) includes tags, bridges, room-level and bay-level event sensors and a location engine. To determine which room or bay a tag is in, room-level and bay-level event sensors sense motion events in the room or bay, transmit the motion event reports to a location engine, and/or tags. Tags contain an accelerometer, to sense motion of the tags. A series of location-engine steps estimates the room-level or bay-level-location of the tags based on a combination of received signal-strength analysis, and a comparison of tag-motion status to the perceived motion events in a room or bay. The analysis of tag-motion status and motion-in-room and motion-in-bay events produces a better estimate of room-level or bay-level location of the tag than a received-signal-strength estimate can produce alone.

IPC 8 full level
G08B 13/24 (2006.01); **H04W 4/02** (2018.01); **H04W 4/80** (2018.01)

CPC (source: EP US)
G01S 5/0036 (2013.01 - EP); **G01S 5/02585** (2020.05 - EP US); **G01S 5/0264** (2020.05 - EP); **G01S 5/0269** (2020.05 - EP); **G16H 40/20** (2017.12 - EP); **A61B 5/1113** (2013.01 - EP); **G01S 2205/01** (2020.05 - EP); **G01S 2205/02** (2020.05 - EP); **G01S 2205/10** (2020.05 - EP)

Citation (search report)
See references of WO 2019246049A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2019246049 A1 20191226; WO 2019246049 A8 20210225; EP 3807853 A1 20210421

DOCDB simple family (application)
US 2019037667 W 20190618; EP 19822878 A 20190618