

Title (en)
NETWORK FORMATION IN ASSET TRACKING SYSTEM BASED ON ASSET CLASS

Title (de)
NETZWERKAUSBILDUNG IN EINEM ASSET-TRACKING-SYSTEM AUF DER GRUNDLAGE DER ASSET-KLASSE

Title (fr)
FORMATION DE RESEAUX EN SYSTEME DE SUIVI DE BIENS EN FONCTION DE LA CLASSE DE BIENS

Publication
EP 1389368 A4 20060104 (EN)

Application
EP 01274467 A 20011226

Priority

- US 0149513 W 20011226
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Abstract (en)
[origin: WO03032501A2] A plurality of wireless transceivers are associated with assets and each transceiver is assigned a class designation representative of an attribute, characteristic, relation, or behavior of its respective asset. Class based network formation routines are utilized to establish hierarchical networks based on asset classes, and the asset class is used by each transceiver to screen communications intended for receipt by transceivers of the same class. The overall wireless data communication network results in reduced power consumption and signal interference in asset-tracking applications. The transceivers may include a query handling routine for forming a dynamically distributed hierarchical database system. Furthermore, a recipient transceiver selectively receives communications from other local transceivers by transmitting at incrementally stronger power levels to successive groups of transceivers, and receiving reply transmissions only from a limited number of the transceivers that excludes those transceivers from which communications already are received.

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H04B 7/14; **H04L 12/56**; **H04L 12/28**

IPC 8 full level
G07C 9/00 (2006.01); **H04L 12/28** (2006.01); **H04L 12/56** (2006.01); **H04L 29/08** (2006.01); **G01S 5/14** (2006.01); **G06K 17/00** (2006.01)

CPC (source: EP)
G07C 9/28 (2020.01); **H04L 67/14** (2013.01); **H04L 69/329** (2013.01); **G01S 5/14** (2013.01)

Citation (search report)

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