

Title (en)

DEVICE AND METHOD FOR RELATIVE LOCATION OF AT LEAST THREE NODES

Title (de)

VORRICHTUNG UND VERFAHREN ZUR RELATIVEN ORTUNG VON MINDESTENS DREI KNOTEN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE LOCALISATION RELATIVE D'AU MOINS TROIS NOEUDS

Publication

EP 3610280 A1 20200219 (FR)

Application

EP 17722846 A 20170413

Priority

FR 2017050884 W 20170413

Abstract (en)

[origin: WO2018189430A1] The invention relates to a device for relative location, comprising at least three nodes remote from one another. According to the invention, the node (A) comprises a unit (AER), capable of triggering an exchange of messages (M1, M2) to go back and forth with a second unit (BER) present in node (B), the node (A) comprising a unit (AC) for calculating a time-of-flight (Tab) of the message (M1, M2), the unit (AER) being capable of transmitting a message (M5) containing a piece of information (INF1) indicating the time-of-flight (Tab), the node (C) comprising a unit (CER), capable of triggering an exchange of messages (M3, M4) with the unit (AER) and a unit (CC) for calculating a time-of-flight (Tbc) of the message (M3, M4), the unit (CER) being capable of receiving messages (M1, M2, M5), the node (C) comprising a time measurement unit (CMT) for measuring times of receipt (T1, T2) of the messages (M1, M2), the unit (CC) being capable of calculating a time-of-flight (Tbc) of the message (M2) from node (B) to node (C) on the basis of times (T1, T2), time-of-flight (Tbc) and the piece of information (INF1), contained in the message (M5).

IPC 8 full level

G01S 5/02 (2010.01); **G01S 5/00** (2006.01); **G01S 5/14** (2006.01)

CPC (source: EP US)

G01S 5/0289 (2013.01 - EP); **H04W 64/00** (2013.01 - US); **G01S 5/0072** (2013.01 - EP); **G01S 5/14** (2013.01 - EP)

Citation (search report)

See references of WO 2018189430A1

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 2018189430 A1 20181018; EP 3610280 A1 20200219; US 2020389866 A1 20201210

DOCDB simple family (application)

FR 2017050884 W 20170413; EP 17722846 A 20170413; US 201716604922 A 20170413