

Title (en)

SYSTEM FOR LOCATON AND OPERATION MANAGEMENT OF MOBILE VEHICLE USING PHASE DIFFERENCE OF ARRIVAL

Title (de)

SYSTEM F R STANDORT- UND BETRIEBSMANAGEMENT EINES MOBILEN FAHRZEUGES MITTELS ANKUNFTSPHASENDIFFERENZ

Title (fr)

SYSTEME PERMETTANT DE LOCALISER ET DE GERER LE FONCTIONNEMENT D'UN VEHICULE MOBILE AU MOYEN D'UN DEPHASAGE D'ARRIVEE

Publication

EP 1563314 A4 20100616 (EN)

Application

EP 02793564 A 20021230

Priority

- KR 0202487 W 20021230
- KR 20020066335 A 20021030

Abstract (en)

[origin: WO2004040327A1] Disclosed is a system for location of a moving vehicle running along a specific route using phase difference of arrival, comprising: a vehicle radio set mounted on the moving vehicle and adapted to send out a specific radio signal of the moving vehicle; a plurality of wayside radio sets installed at certain intervals along the route and adapted to receive the radio signal from the vehicle radio set; a station radio set adapted to receive the radio signal of the moving vehicle and identification information of two corresponding ones of the plurality of wayside radio sets from the two corresponding wayside radio sets located at both sides in such a manner as to be opposite to each other with respect to a running spot which the moving vehicle is passing, and a position tracking section adapted to receive the radio signal of the moving vehicle and the identification information of the two corresponding wayside radio sets from the station radio set through a wired or radio communication network, and search a route database having data previously stored therein to calculate produce position information of the moving vehicle from the radio signal of the moving vehicle and the identification information of the two corresponding wayside radio sets using a phase difference between the two corresponding wayside radio sets with respect to the moving vehicle.

IPC 8 full level

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CPC (source: EP KR)

B60L 3/0015 (2013.01 - EP); **B61L 15/0027** (2013.01 - EP); **B61L 25/025** (2013.01 - EP); **G01S 1/30** (2013.01 - KR); **G01S 11/02** (2013.01 - EP); **G01S 19/50** (2013.01 - KR); **B60L 2200/26** (2013.01 - EP); **B60L 2240/70** (2013.01 - EP); **Y02T 10/72** (2013.01 - EP); **Y02T 90/16** (2013.01 - EP)

Citation (search report)

- [A] DE 19707341 A1 19980820 - SIEMENS AG [DE]
- [A] US 5420883 A 19950530 - SWENSEN MARVIN D [US], et al
- See references of WO 2004040327A1

Designated contracting state (EPC)

FR

DOCDB simple family (publication)

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