Title (en)
METHOD AND NAVIGATION DEVICE FOR GEOGRAPHICAL POSITIONING

Title (de)
VERFAHREN UND NAVIGATIONSEINRICHTUNG ZUR GEOGRAPHISCHEN POSITIONSBESTIMMUNG

Title (fr)
PROCÉDÉ ET SYSTÈME DE NAVIGATION POUR GÉOLOCALISATION

Publication
EP 2286266 A1 20110223 (DE)

Application
EP 09753542 A 20090527

Priority
• DE 2009000742 W 20090527
• DE 102008025638 A 20080528

Abstract (en)

[origin: WO2009143826A1] The invention relates to a method for the geographical positioning (5) of a passenger in relation to a road element (3, 4) on a digital road map. The invention further relates to a corresponding computer program product and to a digital memory medium and to a corresponding navigation device. The invention is characterized in that a virtual corridor (6) is defined along a road element (3) that is associated with the actual position (5), movement components of the passenger at a right angle to the road vector of the actual road element (6) and/or information on the momentary direction of the passenger being ignored inside the corridor (6) during map matching, i.e. examination of the actual position of the passenger by means of map data. The invention allows the accuracy of positioning by means of GPS to be increased especially in the case of passenger navigation. The proneness to errors of known navigation methods and devices with respect to the movements of a passenger at a right angle to the road direction can be considerably reduced, especially for navigation applications in town centers.

IPC 8 full level
G01S 5/14 (2006.01); **G01C 21/30** (2006.01); **G01S 19/48** (2010.01)

CPC (source: EP US)
G01C 21/20 (2013.01 - EP); **G01S 19/48** (2013.01 - EP US)

Citation (search report)
See references of WO 2009143826A1

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 102009022881 A1 20091203; EP 2286266 A1 20110223; WO 2009143826 A1 20091203

DOCDB simple family (application)
DE 102009022881 A 20090527; DE 2009000742 W 20090527; EP 09753542 A 20090527