Title (en)
IMPROVED NAVIGATION DEVICE AND METHOD

Title (de)
VERBESSERTE NAVIGATIONSEINRICHTUNG UND VERFAHREN

Title (fr)
DISPOSITIF ET PROCÉDÉ DE NAVIGATION AMÉLIORÉS

Publication
EP 2223142 A1 20100901 (EN)

Application
EP 07856963 A 20071220

Priority
EP 2007011240 W 20071220

Abstract (en)
[origin: WO2009080064A1] A method of determining the position of a navigation device (500) when only relatively poor GPS signals are available is described, together with a navigation device capable of determining its current location in such conditions. The method comprises the steps of receiving a plurality of GPS signals (502) from a plurality of GPS satellites (51-54), determining range information from timing information forming part of said signals, together with identification information, specific to each of said satellites, attempting to receive and store the entire ephemeris data payloads additionally forming part of each said signals and being specific to each of said satellites. The method is characterized by the further steps of establishing a communication (510) with a proximate device (508) using a wireless communication protocol, determining that the proximate device has already stored the ephemeris data, or specific parts thereof, relating to satellite position, for the identified satellites, requesting and receiving said ephemeris data or specific parts thereof for the identified satellites, said navigation device subsequently determining its current location using both the range information and the wirelessly received ephemeris data specific to the satellites for which the range information has been determined.

IPC 8 full level
G01S 1/00 (2006.01)

CPC (source: EP)
G01S 19/05 (2013.01); **G01S 19/25** (2013.01)

Citation (search report)
See references of WO 2009080064A1

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DOCDB simple family (publication)
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