

Title (en)

METHOD FOR IMPROVED DETERMINATION OF A VEHICLE ATTITUDE USING SATELLITE RADIONAVIGATION SIGNALS

Title (de)

VERFAHREN ZUR VERBESSERTEN BESTIMMUNG EINER FAHRZEUGLAGE UNTER VERWENDUNG VON  
SATELLITENFUNKNAVIGATIONSSIGNALEN

Title (fr)

PROCEDE D'AMELIORATION DE LA DETERMINATION DE L'ATTITUDE D'UN VEHICULE A L'AIDE DE SIGNAUX DE RADIONAVIGATION PAR  
SATELLITE

Publication

**EP 1459093 A1 20040922 (FR)**

Application

**EP 02805393 A 20021217**

Priority

- FR 0204397 W 20021217
- FR 0116561 A 20011220

Abstract (en)

[origin: WO03054576A1] The invention concerns a method using at least a pair of antennae, which consists in carrying out: a standardized spectral analysis before intercorrelation of the demodulated signals (I, Q), by the code and the carrier, resetting phase coherence of the signals before recombination, measuring phase difference carried out by a true intercorrelation of homologous satellite paths by interferometry of two signals derived from a common satellite and received respectively by a pair of antennae, then in reducing the search domain of the initial ambiguity removal to determine a vehicle attitude by interferometric GPS measurement and implementing a statistical test for ambiguity selection.

IPC 1-7

**G01S 5/14**; **G01S 5/02**

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 03054576A1

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**WO 03054576 A1 20030703**; CA 2470550 A1 20030703; EP 1459093 A1 20040922; FR 2834069 A1 20030627; FR 2834069 B1 20040227;  
US 2005043887 A1 20050224; US 7454289 B2 20081118

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