

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  
**G01S 1/00** (2006.01); **G01S 5/14** (2006.01); **G01S 19/30** (2010.01); **G01S 19/44** (2010.01); **G01S 19/22** (2010.01)

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Citation (search report)  
See references of WO 03054576A1

Cited by  
CN112136057A

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