

Title (en)

DEVICE FOR HYBRIDIZING A SATELLITE POSITIONING RECEIVER WITH AN INERTIAL UNIT

Title (de)

VERKNÜPFUNG EINES EMPFÄNGERS FÜR EIN SATELLITENNAVIGATIONSSYSTEM MIT EINEM TRÄGHEITSNAVIGATIONSSYSTEM

Title (fr)

DISPOSITIF D'HYBRIDATION D'UN RECEPTEUR DE POSITIONNEMENT PAR SATELLITES AVEC UNE CENTRALE INERTIELLE

Publication

EP 1157284 A1 20011128 (FR)

Application

EP 00990065 A 20001219

Priority

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Abstract (en)

[origin: WO0146712A1] The invention concerns the hybridization of an inertial unit and a satellite positioning receiver in order to correct the long-term drift of the inertial unit. There are two known types of hybridization, one called loose and the other one called tight . Loose hybridization has the disadvantage of requiring complete measurements from the positioning receiver but it does not involve the use of sensitive data from the positioning receiver. Tight hybridization operates even with a positioning receiver supplying incomplete data but requires the use of sensitive data from the positioning receiver. The invention provides a hybridization halfway between loose hybridization and tight hybridization having the advantages of both but without their drawbacks.

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IPC 8 full level

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