

Title (en)
SYSTEM FOR CONTROLLING THE FORCE REBALANCE USING AUTOMATIC GAIN CONTROLLING LOOP AND METHOD FOR THE SAME

Title (de)
SYSTEM ZUR STEUERUNG DES KRAFTNEUAUSGLEICHS UNTER VERWENDUNG EINER AUTOMATISCHEN
VERSTÄRKUNGSREGELUNGSSCHLEIFE UND VERFAHREN HIERFÜR

Title (fr)
SYSTÈME DE COMMANDE DE RÉÉQUILIBRAGE DE FORCE AU MOYEN D'UNE BOUCLE DE COMMANDE DE GAIN AUTOMATIQUE ET
PROCÉDÉ ASSOCIÉ

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Application
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Abstract (en)
[origin: WO2009093769A2] The present invention relates to a force rebalance control system and method using an automatic gain control loop, which are configured to perform the force rebalance feedback control of a vibratory gyroscope using the automatic gain control loop for controlling the velocity signal of a mass body. Accordingly, the present invention is advantageous in that a conventional digital circuit, which is complicated and sensitive to noise, can be implemented using a simple analog circuit, and the present invention can be extended and applied to general-purpose vibratory gyroscopes or various sensor fields, such as those of an inertial sensor, a pressure sensor, and a temperature sensor, as well as micro-gyroscopes. Further, a force rebalance control system using an automatic gain control loop according to the present invention is applied to various sensors, thus improving performance, such as the dynamic range, bandwidth, and linearity of the sensors.

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