

Title (en)

DEVICE FOR STABILIZING A HIGHLY DYNAMIC BODY ON A LESS DYNAMIC CARRIER

Publication

**EP 0229864 B1 19890809 (DE)**

Application

**EP 86100960 A 19860124**

Priority

EP 86100960 A 19860124

Abstract (en)

1. Device for the stabilization of a device (4, 5, 6) which is mounted on a support (2) and which is movable relative to the latter, having, in comparison with the support, a high speed of response to deviations from a rest position, having - a control loop (10), which is associated with the device and which includes a control device (15), for the control of deviations of the device from the rest position, which control loop exhibits a bandwidth matched to the speed of response of the device, - a sensor unit (3) for the detection of changes of position of the support in an inertial system with respect to at least three measurement axes, characterized in that - the sensor unit is mounted as a central sensor block (3) on the support (2) and is equipped with sensors, the bandwidth of which is matched to the relatively slow speed of response of the support, - the device (4, 5, 6) is provided with angle pickups (14), which detect the position of the device relative to the support with respect to at least two axes and the output signals of which are fed to the control device (15) as the regulating quantity, and - devices (13) for the infraction of the control loop by means of the signals which are delivered by the sensor block and which represent the position of the support in the inertial system as guide quantity, are provided in the control loop (10).

IPC 1-7

**F41G 5/16**; **F41G 5/24**; **G12B 5/00**

IPC 8 full level

**F41G 5/16** (2006.01); **F41G 5/24** (2006.01); **G12B 5/00** (2006.01)

CPC (source: EP US)

**F41G 5/16** (2013.01 - EP US); **F41G 5/24** (2013.01 - EP US); **G12B 5/00** (2013.01 - EP US)

Cited by

FR2824132A1; FR2718857A1; EP0598278A1; WO02088616A3

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0229864 A1 19870729**; **EP 0229864 B1 19890809**; **EP 0229864 B2 19930623**; AT E45420 T1 19890815; DE 3664961 D1 19890914; IL 80674 A0 19870227; US 4924749 A 19900515

DOCDB simple family (application)

**EP 86100960 A 19860124**; AT 86100960 T 19860124; DE 3664961 T 19860124; IL 8067486 A 19861117; US 600187 A 19870121