

Title (en)
MAGNETIC BEARING DEVICE

Title (de)
MAGNETLAGEREINRICHTUNG

Title (fr)
DISPOSITIF DE PALIER MAGNÉTIQUE

Publication
EP 2115309 A2 20091111 (DE)

Application
EP 07845302 A 20071219

Priority
• AT 2007000575 W 20071219
• AT 20932006 A 20061219

Abstract (en)
[origin: WO2008074045A2] The invention relates to a magnetic bearing device (1) for the non-contact bearing of a moving object (2), such as a shaft, with a stationary bearing part (2), a permanent magnet system (11) with at least one permanent magnet (4, 4A, 4B) for generating a magnetic base flux (7, 8) and with a control winding system (13) having at least one control winding (14, 15, 16) for generating a control flux (20), which can be supplied with a control current (i), dependent on the deviations during operation of the body (3) from the set position. Measuring means (36, 37, 38, 39) are provided for measuring an inductivity change in the control winding system (13) occurring on a deviation of the body (3) from the set position and/or an electrical parameter related to a voltage induced in the control winding system (13), from which the control current is derived.

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