

Title (en)
ELECTROMAGNETIC ROTARY DRIVE DEVICE

Title (de)
ELEKTROMAGNETISCHE DREHANTRIEBSEINRICHTUNG

Title (fr)
DISPOSITIF D'ENTRAÎNEMENT ROTATIF ELECTROMAGNETIQUE

Publication
EP 2027641 A1 20090225 (DE)

Application
EP 07718491 A 20070608

Priority
• AT 2007000280 W 20070608
• AT 9862006 A 20060608

Abstract (en)
[origin: WO2007140504A1] Electromagnetic rotary drive device (10) having a stator which has electromagnet devices which interact with a rotor (11), which is formed with at least one permanent magnet (13), in order to rotate it, and likewise to provide an electromagnetic bearing for it, and having an open-loop and/or closed-loop control device (20) for the electromagnetic bearing and rotation of the rotor (11), with the stator being in the form of segments (14) with an extender (19) over only a portion of the geometric circle circumference defined by the rotor (11), with force components (3a, 3b) being formed during operation in the direction tangential to the surface of the rotor (11) and in the normal direction by the currents supplied to the electromagnet devices (15, 21) of the segments (14) of the stator, which force components (3a, 3b) cause a torque as well as two supporting forces in different radial directions at right angles to the rotor rotation axis (7).

IPC 8 full level
H02K 7/09 (2006.01); **H02K 21/14** (2006.01)

CPC (source: AT EP)
F16C 32/0459 (2013.01 - AT); **F16C 32/048** (2013.01 - AT); **F16C 32/0493** (2013.01 - AT EP); **H02K 7/09** (2013.01 - EP); **H02K 21/14** (2013.01 - EP); **H02K 41/02** (2013.01 - AT); **H02K 41/03** (2013.01 - AT); **B65G 54/02** (2013.01 - AT); **F16C 2360/46** (2013.01 - EP); **H02K 41/025** (2013.01 - AT); **H02K 2201/15** (2013.01 - EP)

Citation (search report)
See references of WO 2007140504A1

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