

Title (en)  
DIRECT DRIVE FOR LARGE-SCALE DRIVES

Title (de)  
DIREKTANTRIEB FÜR GROSSANTRIEBE

Title (fr)  
ENTRAINEMENT DIRECT POUR ENTRAINEMENTS DE GROS VOLUME

Publication  
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Application  
**EP 06777406 A 20060621**

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Abstract (en)  
[origin: CA2613394A1] The invention relates to a direct drive for large-scale drives, comprising a stator (1) which is configured, when seen from the peripheral direction, by a plurality of segments (3, 4, 5, 6), each having a self-contained winding arrangement, and a rotor which is configured from segments. The segments of the rotor are located on working elements that rotate with the rotor, and interact electromagnetically with a winding system of the stator (1). The inventive drive is especially suitable for ring motors and tube mill drives.

IPC 8 full level  
**H02K 1/14** (2006.01)

CPC (source: EP US)  
**H02K 1/148** (2013.01 - EP US)

Citation (search report)  
See references of WO 2007000403A1

Citation (examination)  
• EP 1422806 A2 20040526 - FANUC LTD [JP]  
• JP 2000050540 A 20000218 - DENSO CORP

Citation (third parties)  
Third party :  
• WO 03073591 A1 20030904 - ABB RESEARCH LTD [CH], et al  
• WO 2006032969 A2 20060330 - HIGH TECHNOLOGY INVEST BV [NL], et al  
• WO 0215367 A1 20020221 - WOBLEN ALOYS [DE]  
• JP S5759462 A 19820409 - MEIDENSHA ELECTRIC MFG CO LTD  
• GB 2278738 A 19941207 - SECRETARY TRADE IND BRIT [GB]  
• "Siemens installs two test wind turbines with direct drive technology", 8 July 2008 (2008-07-08), XP003027956  
• "REW Exclusive: Siemens New 3.6 MW Direct-drive "Concept" Wind Turbine", 4 July 2008 (2008-07-04), XP003027957  
• SPOONER E. ET AL: "Modular, permanent-magnet wind-turbine generators", IEEE, June 1996 (1996-06-01), pages 497 - 502, XP010201165

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**DE 102005029895 A1 20070104**; AR 053933 A1 20070523; AU 2006263851 A1 20070104; AU 2006263851 B2 20091112;  
BR PI0614041 A2 20110309; BR PI0614041 B1 20181211; CA 2613394 A1 20070104; CA 2613394 C 20141202; EP 1897203 A1 20080312;  
JP 2008544741 A 20081204; MX 2008000320 A 20080407; PE 20070300 A1 20070412; RU 2008103013 A 20090810;  
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PE 2006000727 A 20060623; RU 2008103013 A 20060621; US 99401306 A 20060621; ZA 200711115 A 20071220