

Title (en)
WIND TURBINE

Title (de)
WINDTURBINE

Title (fr)
EOLIENNE

Publication
EP 2432990 A2 20120328 (EN)

Application
EP 10778357 A 20100520

Priority
• US 2010035501 W 20100520
• US 17996809 P 20090520
• US 17990309 P 20090520
• US 71491310 A 20100301
• US 71498210 A 20100301

Abstract (en)
[origin: WO2010135484A2] A wind turbine includes a rotary shaft having an axis of rotation, a plurality of turbine blades supported for rotary motion by the shaft, and a plurality of magnets supported by and spaced outwardly from the rotary shaft. The blades are mounted to the shaft by a mount that is radially inward of the magnets wherein the magnets have an annular velocity of at least the annular velocity of the blades. The turbine also includes a conductive coil, which is located outwardly from the magnets and the blades, wherein the coil surrounds the magnets and the blades and which is sufficiently close to the magnets such that rotary movement of the magnets induces current flow in the coil. The electrical power extracted from the wind turbine may be harvested in a continuous manner, a pulsed manner, or a hybrid manner.

IPC 8 full level
F03D 1/00 (2006.01); **F03D 7/02** (2006.01); **F03D 11/00** (2006.01); **F03D 11/02** (2006.01)

CPC (source: EP KR US)
F03D 1/065 (2013.01 - EP KR); **F03D 9/11** (2016.05 - EP KR US); **F03D 9/25** (2016.05 - KR); **H02K 7/1869** (2013.01 - EP KR); **F05B 2220/7066** (2013.01 - EP KR); **F05B 2220/7068** (2013.01 - EP KR); **F05B 2240/133** (2013.01 - EP KR); **F05B 2240/2211** (2013.01 - EP KR); **Y02E 10/72** (2013.01 - EP KR); **Y02E 70/30** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2010135484 A2 20101125; WO 2010135484 A3 20110303; AP 2011006031 A0 20111231; BR PI1011172 A2 20160315; CA 2762791 A1 20101125; CL 2011002919 A1 20120525; CN 102459870 A 20120516; CO 6480906 A2 20120716; EA 201171394 A1 20120530; EP 2432990 A2 20120328; EP 2432990 A4 20140924; JP 2012527577 A 20121108; KR 20120044939 A 20120508; MX 2011012308 A 20120314; SG 176575 A1 20120130; ZA 201109135 B 20120829

DOCDB simple family (application)
US 2010035501 W 20100520; AP 2011006031 A 20100520; BR PI1011172 A 20100520; CA 2762791 A 20100520; CL 2011002919 A 20111118; CN 201080033200 A 20100520; CO 11173746 A 20111216; EA 201171394 A 20100520; EP 10778357 A 20100520; JP 2012512014 A 20100520; KR 20117030317 A 20100520; MX 2011012308 A 20100520; SG 2011085586 A 20100520; ZA 201109135 A 20111212