

Title (en)

NACELLE CONFIGURATIONS FOR A SHROUDED WIND TURBINE

Title (de)

GONDELKONFIGURATIONEN FÜR EINE UMMANTELTE WINDTURBINE

Title (fr)

CONFIGURATIONS DE NACELLE POUR UNE ÉOLIENNE CARÉNÉE

Publication

EP 2438298 A2 20120411 (EN)

Application

EP 10728044 A 20100604

Priority

- US 2010037383 W 20100604
- US 18402609 P 20090604

Abstract (en)

[origin: WO2010141807A2] A shrouded wind turbine comprises a shroud disposed about an impeller. The impeller surrounds a nacelle body which is shaped to enhance smooth flow of wind through the impeller. Some embodiments include an inlet and an outlet in the nacelle body, allowing airflow through an interior cavity. Other nacelle bodies may be tapered, flared, include mixing lobes around a trailing edge, or may have other shapes that enhance fluid flow. Some nacelle bodies include an annular groove that promotes flow attachment. Maintaining airflow attachment to the nacelle body within the turbine increases the energy generation capacity of the wind turbine.

IPC 8 full level

F03D 1/04 (2006.01)

CPC (source: EP US)

F03D 1/04 (2013.01 - EP US); **F05B 2240/40** (2013.01 - EP); **Y02E 10/72** (2013.01 - EP)

Citation (search report)

See references of WO 2010141807A2

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 2010141807 A2 20101209; WO 2010141807 A3 20110526; AU 2010254817 A1 20120112; CA 2764100 A1 20101209; CN 102459872 A 20120516; EP 2438298 A2 20120411

DOCDB simple family (application)

US 2010037383 W 20100604; AU 2010254817 A 20100604; CA 2764100 A 20100604; CN 201080031952 A 20100604; EP 10728044 A 20100604