

Title (en)

SUPPORTING ARM FOR THE BLADES OF WIND TURBINES WITH A VERTICAL ROTATIONAL AXIS

Title (de)

TRÄGERARM FÜR DIE FLÜGEL VON WINDTURBINEN MIT SENKRECHTER DREHACHSE

Title (fr)

BRAS DE SUPPORT DESTINÉ AUX PALES DE TURBINES ÉOLIENNES PRÉSENTANT UN AXE DE ROTATION VERTICAL

Publication

EP 2145102 A2 20100120 (DE)

Application

EP 08758531 A 20080515

Priority

- EP 2008003889 W 20080515
- IT BZ20070021 A 20070517

Abstract (en)

[origin: WO2008141763A2] The invention relates to a supporting arm for the blades of wind turbines with a vertical rotational axis, said arm being situated substantially along a radius between the hub (1) or the bearing organ of the turbine and each of the blades (3) that lie at a corresponding distance from said hub. The cross-section (2s) of the arm is substantially symmetrical about a horizontal axis and is formed by a front convex surface (2a) and a rear concave surface (2b) according to the rotational direction (R) of the rotor. Said cross-section (2s), whether it be the concave or the convex surface, takes the form of an arc, a parabola, a nose cone or a leading edge of a blade profile.

IPC 8 full level

F03D 3/06 (2006.01)

CPC (source: EP)

F03D 3/061 (2013.01); **F03D 3/064** (2013.01); **F05B 2240/214** (2013.01); **F05B 2240/301** (2013.01); **F05B 2250/711** (2013.01); **F05B 2250/712** (2013.01); **Y02E 10/74** (2013.01)

Citation (search report)

See references of WO 2008141763A2

Cited by

CN103216382A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2008141763 A2 20081127; **WO 2008141763 A3 20090806**; EP 2145102 A2 20100120; IT BZ20070021 A1 20081118

DOCDB simple family (application)

EP 2008003889 W 20080515; EP 08758531 A 20080515; IT BZ20070021 A 20070517