

Title (en)

TURBINE WHEEL HAVING AN AXIAL RETAINING RING LOCKING THE BLADES IN RELATION TO A DISC

Title (de)

TURBINENRAD MIT AXIALEM HALTERING ZUR BLOCKIERUNG DER SCHAUFELN IM VERHÄLTNIS ZU EINER SCHEIBE

Title (fr)

ROUE DE TURBINE EQUIPEE D'UN JONC DE RETENUE AXIALE VERROUILLANT DES PALES PAR RAPPORT A UN DISQUE

Publication

EP 2488725 A1 20120822 (FR)

Application

EP 10785099 A 20101012

Priority

- FR 0957150 A 20091013
- FR 2010052151 W 20101012

Abstract (en)

[origin: WO2011045520A1] The invention relates to a turbine wheel (10) having an axis of rotation (X), including: a disc (12) having a periphery and a side surface (12a); a plurality of blades (14) mounted on the disc, each of the blades comprising a blade root (20) and a first radially oriented hook (22) defining a first groove (24) that opens radially towards the axis of rotation of the turbine wheel; the disc comprising a series of second radially oriented hooks (26) defining a second groove (28) that opens radially towards the axis of rotation of the turbine wheel. The invention is characterised in that an axial retaining ring (30) to be placed in the first and second grooves comprises a stop (32) to be placed between two adjacent blade roots so as to limit the azimuthal movements of the ring.

IPC 8 full level

F01D 5/30 (2006.01)

CPC (source: EP KR US)

F01D 5/3015 (2013.01 - EP KR US); **F01D 5/326** (2013.01 - EP KR US); **F05D 2220/32** (2013.01 - KR); **F05D 2240/24** (2013.01 - KR); **F05D 2260/30** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2011045520A1

Cited by

EP3581765A1

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 RS SE SI SK SM TR

DOCDB simple family (publication)

FR 2951224 A1 20110415; FR 2951224 B1 20111209; CA 2776854 A1 20110421; CA 2776854 C 20170228; CN 102575524 A 20120711; CN 102575524 B 20141210; EP 2488725 A1 20120822; EP 2488725 B1 20130724; ES 2426676 T3 20131024; IN 3202DEN2012 A 20151023; JP 2013507572 A 20130304; JP 5547292 B2 20140709; KR 101711374 B1 20170302; KR 20120092125 A 20120820; PL 2488725 T3 20131129; RU 2012119602 A 20131120; RU 2550226 C2 20150510; US 2012201681 A1 20120809; US 9163520 B2 20151020; WO 2011045520 A1 20110421

DOCDB simple family (application)

FR 0957150 A 20091013; CA 2776854 A 20101012; CN 201080046206 A 20101012; EP 10785099 A 20101012; ES 10785099 T 20101012; FR 2010052151 W 20101012; IN 3202DEN2012 A 20120413; JP 2012533675 A 20101012; KR 20127011919 A 20101012; PL 10785099 T 20101012; RU 2012119602 A 20101012; US 201013501884 A 20101012