Title (en)

TURBINE WHEEL WITH AN AXIAL RETENTION SYSTEM FOR VANES

Title (de)

TURBINENRAD MIT EINEM AXIALRÜCKHALTESYSTEM FÜR SCHAUFELN

Title (fr)

ROUE DE TURBINE AVEC SYSTÈME DE RÉTENTION AXIALE DES AUBES

Publication

EP 2366061 A1 20110921 (FR)

Application

EP 09803867 A 20091216

Priority

- FR 2009052553 W 20091216
- FR 0858689 A 20081217

Abstract (en)

[origin: WO2010076493A1] The invention relates to a turbine wheel including: a plurality of vanes (20), a rotor (10) with a disc (12) having a periphery on which the vanes are mounted, each vane including a blade (22) with a base connected to a platform (24) bearing an attachment (26) inserted into a recess opening at the periphery of the disc and extending axially between two opposite surfaces of the disc, the recesses being separated from each other by disc portions that define teeth (16), and a flange (40) for axially retaining the vanes on the disc, including a retaining flange (40) provided on one side of the disc. On the other side of the disc, the disc teeth include radially protruding raised patterns (18) defining abutments axially bearing on the raised patterns (28) formed under the platforms of the vanes and recessed relative to the side surfaces of the attachments provided on the second side of the disc, and the side surfaces of the attachments of the vanes and of the disc on the periphery thereof are located substantially in the same plane.

IPC 8 full level

F01D 5/30 (2006.01)

CPC (source: EP KR US)

F01D 5/02 (2013.01 - KR); **F01D 5/30** (2013.01 - KR); **F01D 5/3007** (2013.01 - EP US); **F01D 5/3015** (2013.01 - EP US)

Citation (search report)

See references of WO 2010076493A1

Cited by

FR3123681A1

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 MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

FR 2939834 A1 20100618; **FR 2939834 B1 20160219**; CA 2746979 A1 20100708; CA 2746979 C 20170117; CN 102257245 A 20111123; CN 102257245 B 20140716; EP 2366061 A1 20110921; EP 2366061 B1 20170322; ES 2622837 T3 20170707; JP 2012512360 A 20120531; JP 5497063 B2 20140521; KR 101667827 B1 20161019; KR 20110102908 A 20110919; PL 2366061 T3 20170731; RU 2011129609 A 20130127; RU 2511915 C2 20140410; US 2011250071 A1 20111013; US 8721293 B2 20140513; WO 2010076493 A1 20100708

DOCDB simple family (application)

FR 0858689 A 20081217; CA 2746979 A 20091216; CN 200980151198 A 20091216; EP 09803867 A 20091216; ES 09803867 T 20091216; FR 2009052553 W 20091216; JP 2011541554 A 20091216; KR 20117016600 A 20091216; PL 09803867 T 20091216; RU 2011129609 A 20091216; US 200913140078 A 20091216