

Title (en)

Turbine blade attachment for a turbomachine

Title (de)

Turbinenschaufelbefestigung für eine Strömungsmaschine

Title (fr)

Fixation d'aubes de turbines pour une turbomachine

Publication

**EP 2322764 A1 20110518 (DE)**

Application

**EP 09014382 A 20091117**

Priority

EP 09014382 A 20091117

Abstract (en)

The attachment has a blade root (1) arranged in a blade groove (18) and formed as a fir tree root. The blade root has two anchoring teeth that are formed for installation in recesses in a rotor, where height (H) of the anchoring teeth is increased for a blade root tip (12). Anchoring tooth tips (7) are arranged along straight tips (10). The blade root has anchoring tooth valley tips (9) between the anchoring teeth, where the anchoring tooth valley tips are arranged along a straight valley (11). The straight tips and the straight valley are arranged at an angle between 2 and 10 degrees.

Abstract (de)

Die Erfindung betrifft eine Turbinenschaufelbefestigung, umfassend einen im Tannenbaumfußdesign ausgebildeten Schaufelfuß (1), der Verankerungszähne (5) aufweist, die zur Schaufelspitze (12) hin derart ausgebildet sind, dass die Höhe (H) der Verankerungszähne (5) zur Schaufelspitze (12) hin zunimmt.

IPC 8 full level

**F01D 5/30** (2006.01)

CPC (source: EP KR US)

**F01D 5/02** (2013.01 - KR); **F01D 5/12** (2013.01 - KR); **F01D 5/30** (2013.01 - KR); **F01D 5/3007** (2013.01 - EP US);  
**F05D 2250/314** (2013.01 - EP US); **F05D 2250/70** (2013.01 - EP US)

Citation (search report)

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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

Designated extension state (EPC)

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DOCDB simple family (publication)

**EP 2322764 A1 20110518**; BR 112012011802 A2 20190924; CN 102667065 A 20120912; EP 2501902 A1 20120926; EP 2501902 B1 20170517;  
JP 2013510995 A 20130328; JP 5680659 B2 20150304; KR 20120107466 A 20121002; PL 2501902 T3 20171229; RU 2012124906 A 20131227;  
RU 2562687 C2 20150910; US 2012224971 A1 20120906; US 8926285 B2 20150106; WO 2011061193 A1 20110526

DOCDB simple family (application)

**EP 09014382 A 20091117**; BR 112012011802 A 20101116; CN 201080052122 A 20101116; EP 10782579 A 20101116;  
EP 2010067582 W 20101116; JP 2012539306 A 20101116; KR 20127012584 A 20101116; PL 10782579 T 20101116;  
RU 2012124906 A 20101116; US 201013510086 A 20101116