

Title (en)

Variable guide vane system for a turbine unit

Title (de)

Verstellbares Leitgitter für eine Turbineneinheit

Title (fr)

Système d'aubes de guidage variables pour une turbine

Publication

EP 1394363 B1 20060301 (DE)

Application

EP 02018295 A 20020826

Priority

EP 02018295 A 20020826

Abstract (en)

[origin: EP1394363A1] The device has a rotor housing with at least one fluid feed channel and a turbine rotor feeding the fluid via a variable turbine geometry control grating. A roller bearing is arranged between a displacement ring and a ring for reversible connection to the rotor housing, e.g. the blade bearing ring or a bearing ring, so that the displacement ring, roller bearing and reversibly connected ring can be fitted in the rotor housing as a modular unit. The device has a rotor housing (2) with at least one fluid feed channel (9) and a turbine rotor (4) feeding the fluid via a variable turbine geometry control grating (5-8). A roller bearing is arranged (3) between a displacement ring (5) and a ring (6) for reversible connection to the rotor housing, e.g. the blade bearing ring or a bearing ring, so that the displacement ring, roller bearing and reversibly connected ring can be fitted in the rotor housing as a modular unit.

IPC 8 full level

F01D 17/16 (2006.01); **F02B 37/24** (2006.01); **F16C 19/06** (2006.01); **F16C 19/22** (2006.01); **F16C 25/08** (2006.01); **F16C 33/58** (2006.01); **F16C 33/78** (2006.01); **F16C 35/06** (2006.01); **F16C 43/04** (2006.01)

CPC (source: EP US)

F01D 17/165 (2013.01 - EP US); **F05D 2230/61** (2013.01 - EP US); **F05D 2230/642** (2013.01 - EP US)

Cited by

DE102015209813A1; EP1635040A1; EP1635041A1; EP2730750A3; EP2208863A1; EP2302175A1; DE102008014678A1; CN101978136A; DE102008014678B4; US8662833B2; US10180104B2; US8727711B2; US7396204B2; US7506508B2; WO2004035991A3; WO2019034275A1; WO2006007963A1; US8033109B2; US8464528B2

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 1394363 A1 20040303; **EP 1394363 B1 20060301**; DE 50205914 D1 20060427; JP 2004132363 A 20040430; JP 4443876 B2 20100331; US 2007277525 A1 20071206; US 7322791 B2 20080129

DOCDB simple family (application)

EP 02018295 A 20020826; DE 50205914 T 20020826; JP 2003297257 A 20030821; US 64947803 A 20030826