

Title (en)

Apparatus for the ventilation of a high pressure turbine rotor

Title (de)

Vorrichtung für die Belüftung eines Rotor einer Hochdruckturbine

Title (fr)

Dispositif de ventilation d'un rotor de turbine à haute pression d'une turbomachine

Publication

EP 1445421 B1 20060104 (FR)

Application

EP 04100404 A 20040204

Priority

FR 0301391 A 20030206

Abstract (en)

[origin: EP1445421A1] The device has a coolant circuit allowing cooling air to flow via openings in an upstream support (66) of an upstream disc. The air circulates downstream between an interior boring (48) of the disc and an upstream flange (78) of a downstream disc. A labyrinth (80) placed between the two discs separates the air flow into two (F1, F2), to circulate on both sides of the labyrinth in the direction of paddles (4, 6).

IPC 8 full level

F01D 1/00 (2006.01); **F01D 5/08** (2006.01); **F02C 7/18** (2006.01)

CPC (source: EP US)

F01D 5/082 (2013.01 - EP US)

Cited by

FR2960260A1; FR2946687A1; CN102459817A; EP3808937A1; US8402770B2; US9920652B2; EP3196408A1; WO2010142682A1; US11421597B2; US11815020B2

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EP 04100404 A 20040204; CA 2456589 A 20040202; DE 602004000301 T 20040204; ES 04100404 T 20040204; FR 0301391 A 20030206; JP 2004026230 A 20040203; RU 2004103479 A 20040205; US 77154004 A 20040205