

Title (en)

Cooling circuit for a rotor blade of a turbomachine

Title (de)

Kühlkreislauf für eine Rotorschaukel einer Turbomaschine

Title (fr)

Circuits de refroidissement pour aube mobile de turbomachine

Publication

EP 1741875 A1 20070110 (FR)

Application

EP 06115023 A 20060606

Priority

FR 0506266 A 20050621

Abstract (en)

The blade has intrados cooling circuit comprising intrados cavities (24, 26) extending from an intrados lateral side (20) to a central wall (30), a central cavity (28) extending from the side (20) to an extrados lateral side (22), and outlet orifices (40) opened in the cavity (28) and leading on the side (20). An extrados cooling circuit comprises extrados cavities (42, 44) radially extending from the side (22) to the central wall, a central cavity (46) extending from the side (20) to the side (22), and outlet orifices (54) opened in the cavity (46) and leading on the side (20).

IPC 8 full level

F01D 5/18 (2006.01)

CPC (source: EP US)

F01D 5/187 (2013.01 - EP US); **F05D 2260/202** (2013.01 - EP US)

Citation (search report)

- [A] JP S60135606 A 19850719 - TOSHIBA KK
- [A] US 5193980 A 19930316 - KAINCZ CHRISTIAN [US], et al
- [A] US 5813835 A 19980929 - CORSMEIER ROBERT J [US], et al
- [A] EP 1362982 A1 20031119 - GEN ELECTRIC [US]
- [DA] EP 1288438 A1 20030305 - SNECMA MOTEURS [FR]
- [DA] EP 1288439 A1 20030305 - SNECMA MOTEURS [FR]

Cited by

EP1793084A3; FR3032173A1; GB2549235A; GB2549235B; EP3828383A1; US11732594B2; US10518869B2; WO2016120561A1; WO2018189433A2; WO2018189434A2; US11073025B2; US11248468B2

Designated contracting state (EPC)

DE FR GB SE

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1741875 A1 20070110; **EP 1741875 B1 20080917**; CA 2550442 A1 20061221; CA 2550442 C 20121204; DE 602006002782 D1 20081030; FR 2887287 A1 20061222; FR 2887287 B1 20070921; JP 2007002843 A 20070111; JP 4801513 B2 20111026; RU 2006122178 A 20071227; RU 2403402 C2 20101110; US 2007116570 A1 20070524; US 7513739 B2 20090407

DOCDB simple family (application)

EP 06115023 A 20060606; CA 2550442 A 20060619; DE 602006002782 T 20060606; FR 0506266 A 20050621; JP 2006165609 A 20060615; RU 2006122178 A 20060620; US 45297106 A 20060615