

Title (en)

Turbine blade comprising a cooling circuit

Title (de)

Turbinenschaufel umfassend einen Kühlkreislauf

Title (fr)

Aube mobile de turbomachine comprenant un circuit de refroidissement

Publication

**EP 1790819 B1 20170621 (FR)**

Application

**EP 06124041 A 20061114**

Priority

FR 0512003 A 20051128

Abstract (en)

[origin: EP1790819A1] The blade (10a) has a center section (C) geometrically divided into four adjacent concave zones and four adjacent convex zones arranged on both sides of a skeleton line (S) of the blade. The central section has a concave cooling circuit with a set of radial cavities (24a, 26a, 28a) occupying three adjacent concave zones and a convex cooling circuit with another set of radial cavities (30a, 32a, 34a) occupying the convex zones and the remaining concave zones.

IPC 8 full level

**F01D 5/18** (2006.01)

CPC (source: EP US)

**F01D 5/187** (2013.01 - EP US); **F05D 2250/711** (2013.01 - EP US); **F05D 2250/712** (2013.01 - EP US); **F05D 2260/202** (2013.01 - EP US); **F05D 2260/22141** (2013.01 - EP US)

Cited by

EP3561231A1; EP2067929A3; EP2835501A1; FR3020402A1; RU2674105C2; US10156143B2; US11313236B2; US9605544B2; US9869187B2; WO2015162389A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 1790819 A1 20070530; EP 1790819 B1 20170621**; CA 2569566 A1 20070528; CA 2569566 C 20131224; FR 2893974 A1 20070601; FR 2893974 B1 20110318; JP 2007146842 A 20070614; JP 4823872 B2 20111124; RU 2006141862 A 20080610; RU 2421623 C2 20110620; US 2007122282 A1 20070531; US 7661930 B2 20100216

DOCDB simple family (application)

**EP 06124041 A 20061114**; CA 2569566 A 20061127; FR 0512003 A 20051128; JP 2006316844 A 20061124; RU 2006141862 A 20061127; US 56272606 A 20061122