

Title (en)

Turbine engine component for adaptive cooling

Title (de)

Turbinenmotorkomponente zur adaptiven Kühlung

Title (fr)

Composant de moteur à turbine pour un refroidissement adaptatif

Publication

EP 2354453 B1 20180328 (EN)

Application

EP 10152428 A 20100202

Priority

EP 10152428 A 20100202

Abstract (en)

[origin: EP2354453A1] The invention is directed to a turbine engine component (1), particularly an aerofoil, having a body (2) comprising: a first surface (10) exposed to a working fluid of high temperatures during operation, further comprising a second surface (11) comprising a depression (20, 21, 22, 23, 24, 25, 26), the depression (20, 21, ...) being exposed to a cooling fluid during operation, the depression (20, 21, ...) being oriented such that, starting from the second surface (11), it deepens in direction of a back face (12) of the first surface (10). Furthermore the body (2) comprises a body portion (40) between the back face (12) and the first surface (10). The depression (20, 21, ...) is defined such that a diameter (d1, d2) of the depression (20, 21, ...) decreases from the second surface (11) in direction of the back face (12).

IPC 8 full level

F01D 5/18 (2006.01); **F01D 5/28** (2006.01)

CPC (source: EP US)

F01D 5/186 (2013.01 - EP US); **F01D 5/187** (2013.01 - EP US); **F01D 5/288** (2013.01 - EP US); **F05D 2230/90** (2013.01 - EP US); **F05D 2250/232** (2013.01 - EP US); **F05D 2250/292** (2013.01 - EP US); **F05D 2260/202** (2013.01 - EP US); **F05D 2270/11** (2013.01 - EP US)

Citation (examination)

US 2009074576 A1 20090319 - BROSTMAYER JOSEPH [US]

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EP2873806A1; EP2716867A1; EP2857636A1; EP3351729A1; EP3409890A1; CN108979733A; EP3409894A1; EP2937512A1; US9617859B2; US11352886B2; US10662779B2; US11041389B2; US9797260B2; WO2015071141A1; US10760430B2; US10927680B2; US10704399B2; EP3409891A1; CN108979731A; JP2019011753A; WO2019074514A1

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

DOCDB simple family (publication)

EP 2354453 A1 20110810; EP 2354453 B1 20180328; US 2011189015 A1 20110804

DOCDB simple family (application)

EP 10152428 A 20100202; US 201113017350 A 20110131