

Title (en)

Serpentine microcircuits for local heat removal

Title (de)

Serpentinenartige Mikrokanäle zur lokalen Wärmeabfuhr

Title (fr)

Microcircuits en serpentín pour un enlèvement local de chaleur

Publication

EP 1881157 B1 20140212 (EN)

Application

EP 07252841 A 20070718

Priority

- US 49483106 A 20060728
- US 48915506 A 20060718

Abstract (en)

[origin: EP1881157A1] A turbine engine component (90), such as a turbine blade, has an airfoil portion (104) with a pressure side and a suction side. The turbine engine component (90) also has a first cooling circuit (100) within the pressure side for cooling the pressure side of the airfoil portion (110) and a second cooling circuit (120) within the suction side for cooling the suction side of the airfoil portion (104) and for cooperating with a wrap around leading edge cooling circuit (126) for creating a cooling film over the pressure side.

IPC 8 full level

F01D 5/18 (2006.01)

CPC (source: EP)

F01D 5/186 (2013.01); **F05D 2260/202** (2013.01)

Cited by

EP2752554A1; CN102606221A; WO2014106598A1

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

EP 1881157 A1 20080123; EP 1881157 B1 20140212

DOCDB simple family (application)

EP 07252841 A 20070718