

Title (en)

A platform cooling device for a blade of a turbomachine

Title (de)

Plattformkühlungsvorrichtung für eine Schaufel einer Turbomaschine

Title (fr)

Dispositif de refroidissement de plate-forme pour une aube de turbomachine

Publication

EP 2728114 B1 20160210 (EN)

Application

EP 12190755 A 20121031

Priority

EP 12190755 A 20121031

Abstract (en)

[origin: EP2728114A1] A platform cooling device for a blade of a turbomachine is presented. A platform cooling device (10) includes a first portion (11) to be positioned at a platform (9) of the blade (1), a second portion (12) arranged at an angle to the first portion (11), to be positioned at a root portion (3) of the blade (1), an inlet (18) for a cooling fluid (27) on the second portion (12), and a channel (28) for directing the cooling fluid (27) from the inlet (18) to a plurality of impingement holes (20) for releasing the cooling fluid (27) at the first portion (11).

IPC 8 full level

F01D 5/08 (2006.01); **F01D 5/18** (2006.01)

CPC (source: EP)

F01D 5/081 (2013.01); **F01D 5/187** (2013.01); **F05D 2240/81** (2013.01)

Cited by

WO2018036719A1; US2016146016A1; EP3287596A1; CN109642464A; US10895156B2; EP3421165A1; CN109083685A; JP2019023465A

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2728114 A1 20140507; EP 2728114 B1 20160210

DOCDB simple family (application)

EP 12190755 A 20121031