

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 A1 20140507 (EN)**

Application

**EP 12190755 A 20121031**

Priority

EP 12190755 A 20121031

Abstract (en)

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)

Citation (applicant)

US 6120249 A 20000919 - HULTGREN KENT GORAN [US], et al

Citation (search report)

- [X] CH 703875 A2 20120330 - GEN ELECTRIC [US]
- [A] US 5634766 A 19970603 - CUNHA FRANCISCO J [US], et al
- [A] EP 1028228 A1 20000816 - SIEMENS AG [DE]
- [A] EP 1413715 A1 20040428 - SIEMENS AG [DE]

Cited by

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

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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