

Title (en)

Impingement cooling of a turbomachine component

Title (de)

Prallkühlung eines Bauteils in einer Strömungskraftmaschine

Title (fr)

Refroidissement d'un élément d'une turbomachine par jet

Publication

**EP 1219780 A3 20040811 (DE)**

Application

**EP 01129066 A 20011207**

Priority

DE 10064271 A 20001222

Abstract (en)

[origin: EP1219780A2] A cooling device for a turbine blade (1), of which the leading edge (3) has to be cooled, is in the form of a cooling channel (4) extending radially towards the blade. In the leading edge region, the channel is bounded by a separating wall (8), which, with the blade wall, encloses a space (6) in the region of the leading edge.

IPC 1-7

**F01D 25/12**; **F01D 5/18**

IPC 8 full level

**F01D 5/18** (2006.01)

CPC (source: EP US)

**F01D 5/187** (2013.01 - EP US); **F05D 2260/201** (2013.01 - EP US)

Citation (search report)

- [XY] US 5690473 A 19971125 - KERCHER DAVID MAX [US]
- [Y] US 4738587 A 19880419 - KILDEA ROBERT J [US]
- [X] US 3844343 A 19741029 - BURGGRAF F
- [X] US 5967575 A 19991019 - BLAKE ALBERT C [US]
- [A] US 5403159 A 19950404 - GREEN DENNIS J [US], et al
- [A] US 5688104 A 19971118 - BEABOUT BRIAN K [US]
- [A] US 5271715 A 19931221 - ZELESKY MARK F [US], et al
- [A] DE 2237154 A1 19730510 - GEN ELECTRIC

Cited by

EP2196625A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1219780 A2 20020703**; **EP 1219780 A3 20040811**; **EP 1219780 B1 20061102**; DE 10064271 A1 20020704; DE 50111357 D1 20061214; US 2002168264 A1 20021114; US 6634859 B2 20031021

DOCDB simple family (application)

**EP 01129066 A 20011207**; DE 10064271 A 20001222; DE 50111357 T 20011207; US 672501 A 20011210