

Title (en)

Turbine engine component comprising a leading edge airfoil-to-platform fillet cooling tube

Title (de)

Gasturbinenkomponente mit einer Leitkantenkühlung

Title (fr)

Refroidissement du bord d'attaque d'un composant de turbine à gaz

Publication

EP 2469035 A3 20171213 (EN)

Application

EP 11250867 A 20111021

Priority

US 97741810 A 20101223

Abstract (en)

[origin: EP2469035A2] A turbine engine component (10) includes an airfoil portion having a leading edge (18), a platform (14), a leading edge airfoil to platform fillet (16), and a cooling tube (30) located within said fillet (16). The cooling tube (30) has a flared entrance (31) end and a flared exit end (33). The invention also extends to a core used to form the turbine engine component.

IPC 8 full level

F01D 9/04 (2006.01); **F01D 5/18** (2006.01)

CPC (source: EP US)

B22C 9/10 (2013.01 - EP US); **F01D 5/186** (2013.01 - EP US); **F01D 5/187** (2013.01 - EP US); **F01D 9/041** (2013.01 - US); **F01D 9/065** (2013.01 - EP); **F05D 2240/121** (2013.01 - EP US); **F05D 2240/81** (2013.01 - EP US); **F05D 2250/11** (2013.01 - EP US); **F05D 2250/23** (2013.01 - EP US); **F05D 2250/27** (2013.01 - EP); **F05D 2250/323** (2013.01 - EP); **F05D 2250/324** (2013.01 - EP)

Citation (search report)

- [I] US 7217094 B2 20070515 - CUNHA FRANK J [US], et al
- [I] US 7632071 B2 20091215 - CHARBONNEAU ROBERT [US], et al
- [A] US 2010254824 A1 20101007 - NAIK SHAILENDRA [CH], et al

Cited by

EP3415250A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2469035 A2 20120627; **EP 2469035 A3 20171213**; **EP 2469035 B1 20200401**; US 2012163993 A1 20120628

DOCDB simple family (application)

EP 11250867 A 20111021; US 97741810 A 20101223