

Title (en)

COOLING SYSTEM FOR GAS TURBINE ENGINES

Title (de)

KÜHLSYSTEM FÜR GASTURBINENTRIEBWERKEN

Title (fr)

SYSTÈME DE REFROIDISSEMENT POUR MOTEUR À TURBINE À GAZ

Publication

**EP 3106613 A1 20161221 (EN)**

Application

**EP 15001689 A 20150608**

Priority

US 201562008619 P 20150606

Abstract (en)

A cooling system for gas turbine engines (100) includes a turbine rotor compartment (106) defining a cooling air plenum (120). A plurality of turbine discs (130,132) are rotatably housed within the rotor compartment (106). A cooling air inlet (122) is in fluid communication with the plenum (120). Each turbine disc includes a cooling outlet (138) in fluid communication with the plenum for cooling the rotor compartment.

IPC 8 full level

**F01D 5/08** (2006.01); **F01D 9/06** (2006.01)

CPC (source: EP)

**F01D 5/084** (2013.01); **F01D 9/065** (2013.01); **F05D 2260/205** (2013.01)

Citation (search report)

- [X] EP 2458147 A2 20120530 - ALSTOM TECHNOLOGY LTD [CH]
- [X] US 2012148405 A1 20120614 - WILLETT JR FRED THOMAS [US], et al
- [X] EP 2586968 A2 20130501 - UNITED TECHNOLOGIES CORP [US]
- [X] US 2011085905 A1 20110414 - WILLETT FRED THOMAS [US], et al
- [X] WO 2004113684 A1 20041229 - SIEMENS AG [DE], et al
- [X] EP 1413711 A1 20040428 - SIEMENS AG [DE]
- [X] US 5795130 A 19980818 - SUENAGA KIYOSHI [JP], et al
- [X] US 5232339 A 19930803 - PLEMMONS LARRY W [US], et al
- [X] GB 2137283 A 19841003 - UNITED TECHNOLOGIES CORP
- [X] EP 0313826 A1 19890503 - BBC BROWN BOVERI & CIE [CH]
- [X] US 2791091 A 19570507 - WHEATLEY JOHN B, et al

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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