

Title (en)

Apparatus and method for cooling a turbine shroud segment and vane outer shroud

Title (de)

Vorrichtung sowie Verfahren zur Kühlung eines Turbinen-Mantelringsegments bzw. eines Deckbands einer Turbinenleitschaufel

Title (fr)

Dispositif et méthode de refroidissement d'une virole de turbine et de l'anneau externe d'une aube statorique de turbine

Publication

EP 1746254 A3 20100310 (EN)

Application

EP 06253774 A 20060719

Priority

- US 18392205 A 20050719
- US 18374105 A 20050719
- US 18484305 A 20050720

Abstract (en)

[origin: EP1746254A2] A cooling arrangement in a turbine section of gas turbine engines is used to direct cooling air within shroud segment platforms (44) for cooling the turbine shroud (32) while forming substantially straight cooling air streams for impingement cooling on a turbine vane outer shroud (38).

IPC 8 full level

F01D 9/04 (2006.01); **F01D 11/08** (2006.01); **F01D 25/12** (2006.01)

CPC (source: EP)

F01D 9/04 (2013.01); **F01D 11/08** (2013.01); **F01D 25/12** (2013.01); **F05D 2240/11** (2013.01); **F05D 2260/20** (2013.01); **F05D 2260/201** (2013.01); **F05D 2260/205** (2013.01)

Citation (search report)

- [X] US 6899518 B2 20050531 - LUCAS TERRENCE [CA], et al
- [X] JP H0234731 U 19900306
- [X] JP 2001207863 A 20010803 - HITACHI LTD
- [X] EP 1225305 A2 20020724 - MITSUBISHI HEAVY IND LTD [JP]
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- [A] EP 1221539 A2 20020710 - MITSUBISHI HEAVY IND LTD [JP]

Cited by

EP1775423A3; KR20150038256A; EP2855891B1

Designated contracting state (EPC)

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