Title (en)

INTERNALLY-COOLED TURBOMACHINE COMPONENT

Title (de)

INNENGEKÜHLTE TURBOMASCHINENKOMPONENTE

Title (fr)

COMPOSANT DE TURBOMACHINE À REFROIDISSEMENT INTÉRIEUR

Publication

EP 3492700 A1 20190605 (EN)

Application

EP 17204416 A 20171129

Priority

EP 17204416 A 20171129

Abstract (en)

An internally-cooled turbomachine component, comprising a main body (200) comprising a first end wall (210), a second end wall (212) spaced apart from the first end wall (210), and a sidewall (220) which extends between the first end wall (210) and the second end wall (212) such that the first end wall (210), second end wall (212) and sidewall (220) define a cooling passage (230) extending between a fluid inlet (202) and a fluid outlet (204), a pedestal bank (240) comprising a plurality of pedestals (241) which span the cooling passage (230) between the first end wall (210) and the second end wall (212), wherein the pedestal bank (240) is spaced from the sidewall (220) to define a flow channel (250) therebetween; and a low-rise turbulator (260) located in the flow channel (250), wherein the low-rise turbulator (260) extends partway between the first end wall (210) and the second end wall (212).

IPC 8 full level

F01D 5/00 (2006.01)

CPC (source: EP)

F01D 5/187 (2013.01); **F01D 9/065** (2013.01); F05D 2240/11 (2013.01); F05D 2240/81 (2013.01); F05D 2250/12 (2013.01); F05D 2250/141 (2013.01); F05D 2250/22 (2013.01); F05D 2250/231 (2013.01); F05D 2260/2212 (2013.01); F05D 2260/22141 (2013.01)

Citation (search report)

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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)

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DOCDB simple family (application)

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