

Title (en)

Impingement tube for gas turbine vane with a partition wall

Title (de)

Kühleinsatz mit einer Trennwand zur Prallkühlung einer Leitschaufel

Title (fr)

Noyau de refroidissement par impact pour une aube de turbine à gaz avec cloison de séparation

Publication

EP 2706195 A1 20140312 (EN)

Application

EP 12183096 A 20120905

Priority

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Abstract (en)

The present invention relates to a tube (100) for being installed into a guide vane (120) of a turbine. The tube (100) comprises a tube wall (101) for forming a fluid channel and a dividing wall (110) which is arranged inside the fluid channel. The dividing wall (110) comprises a first edge (111) and a second edge (112) which is spaced apart from the first edge (111). The first edge (111) is fixed to a first surface section of the tube wall (101). The dividing wall (110) is formed in such a way that the second edge (112) resiliently abuts in a detachable manner against a second surface section of the tube wall (101) such that the dividing wall (110) divides the fluid channel in a first channel (I) and a second channel (II).

IPC 8 full level

F01D 5/18 (2006.01)

CPC (source: EP US)

F01D 5/189 (2013.01 - EP US); **F01D 9/023** (2013.01 - US); **F01D 9/041** (2013.01 - EP US); **F01D 25/12** (2013.01 - US); **F05D 2240/12** (2013.01 - EP US); **F05D 2260/941** (2013.01 - EP US); **Y10T 29/49321** (2015.01 - EP US)

Citation (applicant)

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Designated contracting state (EPC)

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EP 12183096 A 20120905; CA 2883198 A 20130822; CN 201380045883 A 20130822; EP 13756361 A 20130822; EP 2013067442 W 20130822; RU 2015112104 A 20130822; US 201314424249 A 20130822