

Title (en)
Cooling of a turbo machine component

Title (de)
Kühlung einer Komponente einer Strömungsmaschine

Title (fr)
Refroidissement d'une composante d'une turbomachine

Publication
EP 1223308 A3 20040102 (DE)

Application
EP 01129169 A 20011208

Priority
• DE 10062906 A 20001216
• DE 10126215 A 20010530

Abstract (en)
[origin: EP1223308A2] The cooling component for a flow machine, and especially a turbine paddle, has a channel (9,10) to carry a coolant flow with at least one deflection formed by the channel walls (11,12), so that the coolant flows from one channel section into the next downstream channel section. At least one flow guide (8) is at the deflection, to divide the deflected coolant flow into an inner (13) and an outer (14) channel. The flow through the inner channel is restricted by a narrow cross section.

IPC 1-7
F01D 5/18; **F01D 25/12**

IPC 8 full level
F01D 5/18 (2006.01); **F01D 25/12** (2006.01)

CPC (source: EP US)
F01D 5/187 (2013.01 - EP US); **F01D 25/12** (2013.01 - EP US)

Citation (search report)
• [X] US 4775296 A 19881004 - SCHWARZMANN RUSSELL A [US], et al
• [X] US 4604031 A 19860805 - MOSS ROGER W [GB], et al
• [X] US 5498126 A 19960312 - PIGHETTI ANNETTE M [US], et al

Cited by
EP1607576A3; US7137784B2; US8985940B2; US10196906B2; US8801366B2; EP1607576A2; WO2016148690A1; WO2009118245A1; WO2007050205A3; EP1456505A1

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EP 01129169 A 20011208; DE 50111949 T 20011208; US 1366601 A 20011213