

Title (en)
BLADE FOR A GAS TURBINE

Title (de)
SCHAUFEL FÜR EINE GASTURBINE

Title (fr)
AUBE POUR TURBINE À GAZ

Publication
EP 2257399 A1 20101208 (DE)

Application
EP 09726863 A 20090317

Priority
• EP 2009053116 W 20090317
• CH 4702008 A 20080331

Abstract (en)
[origin: WO2009121716A1] A blade (20) for a gas turbine, in particular for the low-pressure turbine of a gas turbine with sequential combustion, is produced by a casting process and has an aerofoil which extends in a radial direction between an inner platform and an outer platform (21) and in the interior of which there is a cooling duct, which runs past the platforms (21) and through which there flows a cooling medium, in particular cooling air, for cooling the blade (20), wherein the outer and/or inner platform (21) has core outlets (40), which originate from the use of a casting core, connect the cooling duct to the space outside and are closed by a closure element (32). In the case of such a blade (20), optimum cooling is ensured by the closure elements (32) being formed and fitted into the core outlets (40) in such a way that they finish flush with the wall surface of the cooling duct.

IPC 8 full level
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CPC (source: EP US)
B22D 31/002 (2013.01 - EP US); **F01D 5/147** (2013.01 - EP US); **F01D 9/041** (2013.01 - EP US); **F05D 2230/21** (2013.01 - EP US); **F05D 2230/60** (2013.01 - EP US)

Citation (search report)
See references of WO 2009121716A1

Citation (examination)
• EP 1416225 A1 20040506 - ALSTOM TECHNOLOGY LTD [CH]
• GB 2061400 A 19810513 - SNECMA
• US 2005238488 A1 20051027 - EASTMAN JOHN ALAN [US], et al
• EP 1027943 A1 20000816 - ABB ALSTOM POWER CH AG [CH]
• EP 1332824 A2 20030806 - HITACHI LTD [JP]

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