

Title (en)
Gas turbine blades

Title (de)
Gasturbinenschaufel

Title (fr)
Aube de turbine à gaz

Publication
EP 1191189 A1 20020327 (DE)

Application
EP 00120926 A 20000926

Priority
EP 00120926 A 20000926

Abstract (en)
A meander-form cooling passage (21) is formed inside the turbine blade and consists of sections orientated along the blade's axis (3). The first section (23) has an impingement cooling insert (37) with its front side (39) orientated to the blade's leading edge (8) extending parallel to it. The impingement cooling insert tapers in the direction of the cooling fluid outlet (35) of the first section of the cooling passage. The insert covers the whole of the cooling fluid inlet area (33) of this section.

Abstract (de)
Die Erfindung betrifft eine Gasturbinenschaufel (1) mit einer kombinierten konvektiven Kühlung mittels eines mäanderförmigen Kühlkanals (21) und einer Prallkühlung über einen Prallkühleinsatz (37). Der Prallkühleinsatz (37) ist in einem entlang der Schaufelblattvorderkante (8) verlaufenden ersten Teilabschnitt (23) des mäanderförmigen Kühlkanals (21) angeordnet. Entlang diese ersten Teilabschnittes (23) verjüngt sich der Prallkühleinsatz (37). <IMAGE>

IPC 1-7
F01D 5/18

IPC 8 full level
F01D 9/02 (2006.01); **F01D 5/18** (2006.01)

CPC (source: EP US)
F01D 5/189 (2013.01 - EP US); **F05D 2260/201** (2013.01 - EP US)

Citation (applicant)
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Citation (search report)
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