

Title (en)
Turbine disc with cooling channels

Title (de)
Turbinen-Laufradscheibe mit Kühlluftkanälen

Title (fr)
Disque de turbine avec canaux refroidissement

Publication
EP 0859128 B1 20000405 (DE)

Application
EP 98101046 A 19980122

Priority
DE 19705442 A 19970213

Abstract (en)
[origin: EP0859128A1] The impeller disc has cooling channels (4) going from its edge. These channels open out into disc slots (2) in which air-cooled turbine blades (3) are inserted. Into each slot open out at least two channels coming from the same edge of the disc. Preferably, in each slot, the mouths of two cooling channels lie beside each other in a common plane at right angles to the disc axis. For each slot, two cooling channels are provided that are mirror-symmetric to, as well as inclined to, a plane of symmetry leading in the radial direction from the disc axis to the middle of the groove.

IPC 1-7
F01D 5/08

IPC 8 full level
F01D 5/08 (2006.01)

CPC (source: EP US)
F01D 5/081 (2013.01 - EP US); **F01D 5/087** (2013.01 - EP US); **F01D 5/3015** (2013.01 - EP US)

Cited by
EP1004748A3; FR2987864A1; US8708657B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0859128 A1 19980819; EP 0859128 B1 20000405; DE 19705442 A1 19980820; DE 59800115 D1 20000511; US 6022190 A 20000208

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EP 98101046 A 19980122; DE 19705442 A 19970213; DE 59800115 T 19980122; US 1981298 A 19980206