

Title (en)
Coolable blade

Title (de)
Kühlbare Schaufel

Title (fr)
Aube refroidissable

Publication
EP 0825332 B1 20030205 (DE)

Application
EP 97810493 A 19970715

Priority
DE 19634238 A 19960823

Abstract (en)
[origin: EP0825332A1] The blade has a foot (11) and vane (1) with pressure side wall (6) and suction-side wall (5) connected together to include a cavity (2) for the cooling fluid. The cavity contains ribs (7) with at least one designed so that it has a tip (9) and two arms (14,15) with the arms angled relative to a radial plane at an acute angle. The cavity can be a double triangle with acute-angled triangular points in the front and rear edges. The ratio of a local rib height to a local cavity height is substantially constant at each point of the rib. The tip of the rib is set in the area of the greatest local height of the rib.

IPC 1-7
F01D 5/18

IPC 8 full level
F01D 5/18 (2006.01); **F02C 7/18** (2006.01)

CPC (source: EP US)
F01D 5/187 (2013.01 - EP US); **F05D 2260/2212** (2013.01 - EP US)

Cited by
DE19856458B4; DE19846332A1; GB2574532A; GB2574532B; US6641362B1; US6343474B1; WO0100965A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0825332 A1 19980225; EP 0825332 B1 20030205; CN 1105227 C 20030409; CN 1186150 A 19980701; DE 19634238 A1 19980226; DE 59709255 D1 20030313; JP 4017708 B2 20071205; JP H1089006 A 19980407; US 5919031 A 19990706

DOCDB simple family (application)
EP 97810493 A 19970715; CN 97116194 A 19970822; DE 19634238 A 19960823; DE 59709255 T 19970715; JP 22622497 A 19970822; US 89776597 A 19970721