

Title (en)  
COOLING SYSTEM FOR TURBINE BLADES AND DISCS

Publication  
**EP 0043300 B1 19840516 (FR)**

Application  
**EP 81400931 A 19810612**

Priority  
FR 8014498 A 19800630

Abstract (en)  
[origin: EP0043300A2] 1. Improvement in systems of ventilation of blades and discs of a turbine, each blade comprising a root (3) engaged in one of the axial grooves (2) provided in the periphery of the disc, a platform (5) at the radial end of the extension of the root (3) and a profiled part (6) extending radially from the platform (5), a passage (9) being provided between the base of the groove (2) and the internal face (3a) of the root and the axial locking of the blade towards the front being effected by a flange (13) mounted on the disc and against which a part of the blade abuts, characterized in this that the root (3) of the blade (4) has at its lower front part a lug or protrusion (7) which includes an opening (8) for the flow of cooling air to the said passage (9), the said lug (7) providing axial rearwards locking by abutting against the upstream face (1a) of the turbine disc.

IPC 1-7  
**F01D 5/18**; **F01D 5/30**

IPC 8 full level  
**F01D 5/18** (2006.01); **F01D 5/30** (2006.01)

CPC (source: EP)  
**F01D 5/081** (2013.01); **F01D 5/18** (2013.01); **F01D 5/3007** (2013.01)

Cited by  
US5759012A; EP0709547A1; EP2896786A1; US8622702B1; CN112196628A; EP0649975A1; FR2969209A1; DE3835932A1; EP1094199A1; FR3095234A1; EP3556996A1; US6416282B1; EP3680451A1; FR3091722A1; CN111434892A; WO2010088881A1; US8870542B2; US9777575B2; US11261745B2

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0043300 A2 19820106**; **EP 0043300 A3 19820113**; **EP 0043300 B1 19840516**; DE 3163609 D1 19840620; FR 2485632 A1 19811231; FR 2485632 B1 19850705

DOCDB simple family (application)  
**EP 81400931 A 19810612**; DE 3163609 T 19810612; FR 8014498 A 19800630