

Title (en)  
COOLED TURBINE STATOR

Publication  
**EP 0040267 B1 19851009 (DE)**

Application  
**EP 80200461 A 19800519**

Priority  
EP 80200461 A 19800519

Abstract (en)  
[origin: US4386885A] In order to improve cooling of an at least two-part guide vane support or carrier for gas turbines, at which deformations do not occur during any operating state and whose parting surface-connection flanges and connection elements are constructed such that they can withstand, essentially free of deformation, all bending moments resulting from the thermal stresses, it is proposed to design the cooling agent channels arranged within the wall of the guide vane support alternately over the circumference thereof as infeed lines or openings and/or outfeed lines or openings and containing connection channels leading to the individual guide vanes or blades. The guide vane support possesses an essentially conical configuration over its axial extent. At the guide vane support there are provided substantially comb-like slotted elements defining the parting surface-connection flanges and the individual comb-like slotted elements may comprise individual sheet metal members which are fixed, as by welding, to the guide vane support.

IPC 1-7  
**F01D 25/14**; **F01D 25/24**

IPC 8 full level  
**F01D 9/02** (2006.01); **F01D 25/14** (2006.01); **F01D 25/24** (2006.01); **F02C 7/18** (2006.01)

CPC (source: EP US)  
**F01D 25/14** (2013.01 - EP US); **F01D 25/243** (2013.01 - EP US)

Cited by  
EP2159384A1; GB2327466A; DE19546722A1; DE19546722B4; FR3101105A1; EP0735243A3; US5913658A; US6079943A; US6082963A; EP0716159A1

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**EP 80200461 A 19800519**; AT 80200461 T 19800519; DE 3071161 T 19800519; JP 6351181 A 19810428; US 26033681 A 19810504