

Title (en)
Guide vane for a gas turbine

Title (de)
Leitschaufel für eine Gasturbine

Title (fr)
Aube de guidage pour turbines à gaz

Publication
EP 0899426 A3 19991208 (DE)

Application
EP 98114445 A 19980801

Priority
DE 29715180 U 19970823

Abstract (en)
[origin: EP0899426A2] The guide vanes' (1) inner and outer ends form mounting rings when assembled together. Each end has a flat face (7) at one side with a raised centre section (8) and an open profile face at the other side. The raised profile section fits into the open profile of the adjacent vane to form part of the support ring, and allow it to align itself. The profiled couplings have limited movement to provide a friction damping effect. The raised profile, and the corresponding recess, preferably covers between 30% and 50% of the area of the face. The profile is preferably between 3 mm and 5 mm proud of the face. The wall thickness of the hollow profile ring sections may be constant.

IPC 1-7
F01D 9/04

IPC 8 full level
F01D 9/02 (2006.01); **F01D 5/22** (2006.01); **F01D 9/04** (2006.01); **F01D 25/00** (2006.01)

CPC (source: EP US)
F01D 9/042 (2013.01 - EP US)

Citation (search report)

- [X] DE 485833 C 19291108 - J A MAFFEI A G
- [A] GB 918692 A 19630213 - ASS ELECT IND
- [A] EP 0654586 A1 19950524 - UNITED TECHNOLOGIES CORP [US]
- [A] US 2801076 A 19570730 - JOSEPH TERRELL BASIL, et al

Cited by
EP1219783A3; CN103119249A; CN103422903A; EP2295724A1; CN102003219A; EP3339608A3; FR3137120A1; EP2617945A1; ITCO20130004A1; CN105209208A; RU2661690C2; US8622708B2; US9657581B2; US10309235B2; WO2012041651A1; US9945388B2; WO2023247857A1; WO2014128169A1

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