

Title (en)
HYBRID METAL-CERAMIC TURBINE VANE

Publication
EP 0206107 A3 19870429 (DE)

Application
EP 86107927 A 19860610

Priority
DE 3521782 A 19850619

Abstract (en)
[origin: US4645421A] A hybrid blade for a fluid flow engine has a U-shaped core of metal or a metal alloy and a ceramic outer jacket which forms together with a mounting plate a unitary, single piece structure. The legs of the core straddle the mounting plate and a heat insulating member is inserted between a crosspiece of the core and the mounting plate. This structure permits relative movement between the core and the jacket to compensate for different heat expansion coefficients.

IPC 1-7
F01D 5/14; **F01D 5/28**; **F01D 5/30**

IPC 8 full level
F01D 5/14 (2006.01); **F01D 5/18** (2006.01); **F01D 5/28** (2006.01); **F01D 5/30** (2006.01)

CPC (source: EP US)
F01D 5/3084 (2013.01 - EP US)

Citation (search report)

- [A] EP 0118020 A1 19840912 - MTU MUENCHEN GMBH [DE]
- [AD] DE 3110096 A1 19820923 - MTU MUENCHEN GMBH [DE]
- [A] FR 2187032 A5 19740111 - BERRY SA ETS [FR]
- [AD] DE 2834843 A1 19800626 - MTU MUENCHEN GMBH [DE]
- [A] GB 2027495 A 19800220 - MTU MUENCHEN GMBH [DE]

Cited by
EP2853688A3

Designated contracting state (EPC)
CH DE FR GB IT LI SE

DOCDB simple family (publication)
EP 0206107 A2 19861230; **EP 0206107 A3 19870429**; **EP 0206107 B1 19880817**; DE 3521782 A1 19870102; DE 3660556 D1 19880922; JP S6248903 A 19870303; US 4645421 A 19870224

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