Title (en)

HYBRID METAL-CERAMIC TURBINE VANE

Publication

EP 0206107 B1 19880817 (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 5/18 (2006.01); **F01D 5/14** (2006.01); **F01D 5/28** (2006.01); **F01D 5/30** (2006.01)

CPC (source: EP US)

F01D 5/3084 (2013.01 - EP US)

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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EP 86107927 A 19860610; DE 3521782 A 19850619; DE 3660556 T 19860610; JP 14398486 A 19860618; US 86957586 A 19860602