

Title (en)

Hybrid metal-ceramic turbine vane.

Title (de)

Hybridschaufel aus Metall und Keramik zusammengesetzt.

Title (fr)

Aube de turbine hybride métal-céramique.

Publication

EP 0206107 A2 19861230 (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.

Abstract (de)

Hybridschaufel aus Metall/Keramik wie hemd- und kappenartigen äußeren Teil aus Keramik, von einem Isolationsstift einfach und sicher gehalten auf dem metallischen Kern.

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)

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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