

Title (en)

Heat insulating ceramic coating having a resistance to high temperatures and to thermal shocks.

Title (de)

Wärmedämmende, hochtemperatur- und thermoschockbeständige Beschichtung auf Keramikbasis.

Title (fr)

Revêtement céramique isolant thermique et résistant aux hautes températures ainsi qu'aux chocs thermiques.

Publication

**EP 0075228 A2 19830330 (DE)**

Application

**EP 82108405 A 19820911**

Priority

DE 3137731 A 19810923

Abstract (en)

[origin: US4471017A] A high-temperature and thermal-shock-resistant thermal insulating coating based upon flame- or plasma-sprayed ceramic materials. The coating consists of several layer sequences essentially of the same materials. Each layer sequence contains at least one ceramic and one cermet layer, and/or one ceramic and one metal layer, and/or one cermet and one metal layer.

Abstract (de)

Wärmedämmende, hochtemperatur- und thermoschockbeständige Beschichtung auf der Basis von flamm- oder plasmagespritzten keramischen Materialien, weisen mehrere Schichtfolgen im wesentlichen gleicher Materialien auf. In jeder Schichtfolge wird mindestens je eine Schicht aus Keramik und Cermet und/oder Keramik und Metall und/oder Cermet und Metall vorgesehen.

IPC 1-7

**C23D 5/10**; **C23C 7/00**

IPC 8 full level

**C04B 41/90** (2006.01); **B32B 9/00** (2006.01); **B32B 15/16** (2006.01); **C23C 4/00** (2006.01); **C23C 4/02** (2006.01); **C23C 4/04** (2006.01); **C23C 4/10** (2006.01); **C23C 28/00** (2006.01); **C23D 5/00** (2006.01); **F02B 77/11** (2006.01); **F02F 7/00** (2006.01); **F16L 59/00** (2006.01)

CPC (source: EP US)

**C23C 4/02** (2013.01 - EP US); **F02B 77/11** (2013.01 - EP US); **F02F 7/0087** (2013.01 - EP US); **F05C 2201/021** (2013.01 - EP US); **Y10T 428/12535** (2015.01 - EP US); **Y10T 428/12611** (2015.01 - EP US); **Y10T 428/24967** (2015.01 - EP US)

Cited by

EP0136741A1; US5534308A; US5721057A; AT517589A4; AT517589B1; EP0170359A1; RU2493813C2; EP0367434A3; EP0217991A1; US4941439A; EP0123952A3; US4612256A; EP0221873A3; EP0183638A1; CN112111702A; WO8808926A1; WO9324672A1; US10634090B2; DE102022127482A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0075228 A2 19830330**; **EP 0075228 A3 19840425**; CA 1186568 A 19850507; DE 3137731 A1 19830414; JP H0343339 B2 19910702; JP S58140380 A 19830820; US 4471017 A 19840911

DOCDB simple family (application)

**EP 82108405 A 19820911**; CA 411927 A 19820922; DE 3137731 A 19810923; JP 16642082 A 19820924; US 42091682 A 19820921