

Title (en)

METAL-CERAMIC GRADED-INDEX MATERIAL, PRODUCT PRODUCED FROM SAID MATERIAL, AND METHOD FOR PRODUCING THE MATERIAL

Title (de)

METALL-KERAMIK-GRADIENTENWERKSTOFF, ERZEUGNIS DARAUS UND VERFAHREN ZUR HERSTELLUNG EINES METALL-KERAMIK-GRADIENTENWERKSTOFFES

Title (fr)

MATERIAU A GRADIENT D'INDICE METAL-CERAMIQUE, PRODUIT REALISE A PARTIR DUDIT MATERIAU ET PROCEDE POUR PRODUIRE UN MATERIAU A GRADIENT D'INDICE METAL-CERAMIQUE

Publication

EP 0984839 B1 20020320 (DE)

Application

EP 98934822 A 19980528

Priority

- DE 9801465 W 19980528
- DE 19722390 A 19970528

Abstract (en)

[origin: WO9853940A1] The invention relates to a metal-ceramic graded-index material, especially for a heat shield or a gas turbine blade, comprising a metallic base material, a ceramic and an additive to provide resistance to oxidation at high temperatures. The concentration of the metallic base material decreases from an area with a high metal content to an area with a high ceramic content. The concentration of the additive has a concentration gradient.

IPC 1-7

B22F 7/02

IPC 8 full level

F02C 7/00 (2006.01); **B22F 3/11** (2006.01); **B22F 7/00** (2006.01); **B22F 7/02** (2006.01); **C04B 35/00** (2006.01); **C04B 35/48** (2006.01); **C22C 1/05** (2006.01); **C22C 1/10** (2006.01)

CPC (source: EP US)

B22F 3/1109 (2013.01 - EP US); **B22F 7/02** (2013.01 - EP US); **B22F 2998/00** (2013.01 - EP US); **Y10T 428/12618** (2015.01 - EP US)

C-Set (source: EP US)

B22F 2998/00 + **B22F 2207/03**

Citation (examination)

- MPR (1996)12, S. 28-32
- J.Am. Ceram. Soc. 79(1996)12, S. 3003-3010

Cited by

GB2380147A; DE102023203166A1; DE102014113083A1

Designated contracting state (EPC)

CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

WO 9853940 A1 19981203; DE 59803436 D1 20020425; EP 0984839 A1 20000315; EP 0984839 B1 20020320; JP 2002502462 A 20020122; US 6322897 B1 20011127

DOCDB simple family (application)

DE 9801465 W 19980528; DE 59803436 T 19980528; EP 98934822 A 19980528; JP 50010099 A 19980528; US 45040099 A 19991129