

Title (en)

COMPOSITE MATERIAL WITH A GREAT TOUGHNESS

Publication

**EP 0298151 A3 19890927 (FR)**

Application

**EP 87114249 A 19870930**

Priority

CH 259987 A 19870708

Abstract (en)

[origin: EP0298151A2] (A) In a composite material comprising reinforcing fibres uniformly distributed in a metal or cermet matrix, the novelty is that the fibres are ceramic fibres which are sepd. or in cloth form and which are covered with a thin protective coating of material selected from carbon, boron and transition metal carbides, nitrides, borides, carbonitrides and oxides. (B) Prodn. of the composite material comprises coating the fibres with a protective coating, mixing the fibres with matrix powder, homogenising the mxit. in a liq. medium, shaping and sintering.

IPC 1-7

**C22C 1/09**

IPC 8 full level

**C22C 19/00** (2006.01); **C22C 29/00** (2006.01); **C22C 29/06** (2006.01); **C22C 29/08** (2006.01); **C22C 29/10** (2006.01); **C22C 30/00** (2006.01); **C22C 32/00** (2006.01); **C22C 47/00** (2006.01); **C22C 47/02** (2006.01); **C22C 47/04** (2006.01); **C22C 47/14** (2006.01); **C22C 49/00** (2006.01); **C22C 49/08** (2006.01)

CPC (source: EP)

**C22C 47/00** (2013.01); **C22C 47/025** (2013.01); **C22C 47/14** (2013.01); **C22C 49/00** (2013.01); **C22C 49/08** (2013.01); **B22F 2998/00** (2013.01)

Citation (search report)

- [X] US 3634132 A 19720111 - CAMAHORT JOSE L, et al
- [X] FR 2230757 A1 19741220 - SIEMENS AG [DE]
- [X] US 3549413 A 19701222 - MCCANDLESS LEE C, et al
- [X] US 3432295 A 19690311 - FRANK LOUIS, et al
- [A] US 4612162 A 19860916 - MORGAN RICKY D [US], et al
- [A] CH 647813 A5 19850215 - STELLRAM SA
- [A] GB 954285 A 19640402 - TI GROUP SERVICES LTD

Cited by

CN108517475A; AT409599B; US5227249A

Designated contracting state (EPC)

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DOCDB simple family (publication)

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