

Title (en)
Composite material with a great toughness.

Title (de)
Verbundkörper mit hoher Zähigkeit.

Title (fr)
Matériau composite à haute ténacité.

Publication
EP 0298151 A2 19890111 (FR)

Application
EP 87114249 A 19870930

Priority
CH 259987 A 19870708

Abstract (en)
(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.

Abstract (fr)
Le matériau composite comporte une phase liante, constituée par une matrice métallique ou céramo-métallique et une phase fibreuse de renforcement répartie uniformément dans cette matrice. La phase fibreuse est constituée par des fibres céramiques, séparées ou sous forme de nappe, et recouvertes d'un revêtement mince de protection en un matériau choisi parmi le groupe comprenant le carbone, le bore et les carbures, nitrures, borures, carbonitrures et oxydes des métaux de transition.

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C22C 1/09

IPC 8 full level
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CPC (source: EP)
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C-Set (source: EP)
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