

Title (en)
Metal-ceramic composite material with high toughness and process for its manufacture

Title (de)
Keramik-Metallverbundkörper mit hoher Zähigkeit sowie Verfahren seiner Herstellung

Title (fr)
Matériau composite céramo-métallique à haute ténacité et procédé pour sa fabrication

Publication
EP 0651067 B1 20000322 (FR)

Application
EP 94116793 A 19941025

Priority
CH 328893 A 19931101

Abstract (en)
[origin: EP0651067A2] The ceramo-metallic composite material includes a ceramic phase with particles of alumina or of an alumina-based solid solution, a refractory phase comprising titanium nitride and/or carbonitride, and a metallic matrix based on Ni, Co, Fe. The interface between the alumina particles or alumina solid solution and the metallic matrix is rich in nitrogen and in titanium or in compounds thereof.

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CPC (source: EP US)
B22F 3/1007 (2013.01 - EP US); **C22C 29/00** (2013.01 - EP US); **C22C 29/02** (2013.01 - EP US); **B22F 2201/02** (2013.01 - EP US); **Y10T 428/12056** (2015.01 - EP US); **Y10T 428/12146** (2015.01 - EP US); **Y10T 428/1216** (2015.01 - EP US); **Y10T 428/12167** (2015.01 - EP US)

Cited by
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