

Title (en)

METHOD OF MANUFACTURE OF METAL MATRIX COMPOSITE MATERIAL INCLUDING INTERMETALLIC COMPOUNDS WITH NO MICROPORES

Publication

**EP 0408257 A3 19920429 (EN)**

Application

**EP 90307379 A 19900705**

Priority

- JP 17772189 A 19890710
- JP 24415889 A 19890920
- JP 28225089 A 19891030

Abstract (en)

[origin: EP0408257A2] A metal matrix composite material having uniformly dispersed intermetallic compounds and no micropores is manufactured by forming a porous preform (18) including 60% to 80% by volume fine fragments essentially made of aluminum, 1% to 10% by volume fine fragments essentially made of nickel, copper or both, and 1% to 10% by volume fine fragments essentially made of titanium so that these fine fragments occupy in total 62% to 95% by volume of said preform (18), and at least a part of the preform is contacted with a melt (22) of a matrix metal selected from aluminum, aluminum alloy, magnesium and magnesium alloy, so that the porous preform is infiltrated with the melt under no substantial application of pressure to the melt.

IPC 1-7

**C22C 1/09**

IPC 8 full level

**B22F 3/26** (2006.01); **C22C 49/06** (2006.01)

CPC (source: EP)

**B22F 3/26** (2013.01); **C22C 49/06** (2013.01)

Citation (search report)

- [A] EP 0133191 A2 19850220 - TOYOTA MOTOR CO LTD [JP]
- [APD] EP 0340957 A2 19891108 - TOYOTA MOTOR CO LTD [JP]

Cited by

FR2675063A1; GB2298872A; DE102010061960A1; US6599466B1; WO9925885A1

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