

Title (en)

Process for the preparation of a grain refiner.

Title (de)

Verfahren zur Herstellung einer Kornverfeinerer-Vorlegierung.

Title (fr)

Procédé de préparation d'alliage mère destiné à l'affinage du grain.

Publication

EP 0521580 A1 19930107 (EN)

Application

EP 92202013 A 19920702

Priority

GB 9114586 A 19910705

Abstract (en)

The invention concerns a process for the preparation of a grain refiner contained within an aluminum matrix, comprising intimate mixing of at least one reaction product of titanium and aluminum contained within an aluminum matrix and at least one reaction product of boron and aluminum contained within an aluminum matrix thereby obtaining solid state reaction products by reacting the reaction products by solid state reaction.

IPC 1-7

C22C 1/04; **C22C 21/00**

IPC 8 full level

B22D 27/20 (2006.01); **B22F 3/23** (2006.01); **C22C 1/00** (2006.01); **C22C 1/02** (2006.01); **C22C 21/00** (2006.01); **C22C 32/00** (2006.01)

CPC (source: EP US)

B22D 27/20 (2013.01 - EP); **B22F 3/23** (2013.01 - EP US); **C22C 21/00** (2013.01 - EP); **C22C 32/0073** (2013.01 - EP);
B22F 2998/00 (2013.01 - EP)

Citation (search report)

- [A] EP 0396388 A2 19901107 - ALCAN INT LTD [CA]
- [A] GB 1268812 A 19720329 - ANGLO METALLURG LTD [GB]
- [A] GB 2162540 A 19860205 - CABOT CORP
- [A] CHEMICAL ABSTRACTS, vol. 100, no. 6, February 06, 1984, Columbus, Ohio, USA LAZAR et al. "Aluminum- -titanium-boron (AlTi5B1) master alloy" page 235, column 2, abstract-no. 38 375x

Cited by

EP1264903A3; CN114761152A; CN110184485A; CN110218891A; US2015218681A1; EP2910656A4; US9951401B2; NL1009258C2; EP3564402A3; WO0246484A1; US11559860B2; WO03033750A1; WO9961671A1

Designated contracting state (EPC)

DE ES FR GB IT NL

DOCDB simple family (publication)

EP 0521580 A1 19930107; AU 1943892 A 19930107; BR 9202457 A 19930316; GB 9114586 D0 19910821; JP H05195108 A 19930803; NO 922637 D0 19920703; NO 922637 L 19930106

DOCDB simple family (application)

EP 92202013 A 19920702; AU 1943892 A 19920703; BR 9202457 A 19920707; GB 9114586 A 19910705; JP 17687092 A 19920703; NO 922637 A 19920703