

Title (en)

Fabrication method of alloy parts by metal injection molding

Title (de)

Verfahren zur Herstellung von Legierungsteilen durch Metallspritzgießen

Title (fr)

Procédé de fabrication de pièces en alliage par moulage par injection de métal

Publication

EP 2564956 A1 20130306 (EN)

Application

EP 12185488 A 20070130

Priority

- EP 07708670 A 20070130
- KR 20060058373 A 20060628

Abstract (en)

A method of manufacturing an alloy part comprises mixing an alloy powder and a binder, the alloy powder having a composition including 40 to 50wt% Cr, 1 to 2.5wt% Si, 0.5wt% or less C, 5.6 to 6.2wt% B and the remainder Fe and unavoidable impurities; performing an injection molding on the mixture to form the injection moldings to have a shape of the part; removing the binder from the injection moldings; and sintering the injection moldings from which the binder is removed.

IPC 8 full level

B22F 3/22 (2006.01); **C22C 33/02** (2006.01)

CPC (source: EP KR US)

B22F 3/00 (2013.01 - KR); **B22F 3/1021** (2013.01 - EP US); **B22F 3/225** (2013.01 - EP US); **C22C 33/0285** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US)

Citation (search report)

- [A] EP 1033194 A1 20000906 - INJEX CORP [JP]
- [A] US 4721599 A 19880126 - NAKAMURA HIDEKI [JP]
- [A] US 6309592 B1 20011030 - WANG TA-HSIANG [TW], et al
- [A] US 6299664 B1 20011009 - MATSUMOTO OSAMU [JP], et al

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KR 2007000514 W 20070130; CN 200780024689 A 20070130; EP 07708670 A 20070130; EP 12185488 A 20070130; JP 2009517946 A 20070130; KR 20060058373 A 20060628; US 30677807 A 20070130