

Title (en)

Process and device for thixo injection molding for making metal components

Title (de)

Verfahren und Vorrichtung zum Thixospritzgiessen zur Herstellung von Metallteilen

Title (fr)

Procédé et dispositif de thixomoulage par injection pour la fabrication de pièces métalliques

Publication

**EP 1281459 A3 20031001 (DE)**

Application

**EP 02012651 A 20020607**

Priority

DE 10135198 A 20010719

Abstract (en)

[origin: EP1281459A2] Use of a thixo pressure die casting process in the production of parts having a graded alloying composition is new. At least two particulate metallic materials of different composition are converted into the thixotropic state in a screw extruder (E) by heating to a temperature between the solidus and liquidus temperature and shearing; and ejecting from a storage zone (11) via a nozzle (9). An Independent claim is also included for a device for producing the parts. Preferred Features: The metallic materials are made from at least two alloys or at least one alloy and a pure metal or at least two pure metals.

IPC 1-7

**B22D 17/00**; **B22D 17/02**; **C22C 1/00**

IPC 8 full level

**B22D 17/00** (2006.01); **B22D 17/02** (2006.01); **C22C 1/00** (2006.01)

CPC (source: EP)

**B22D 17/007** (2013.01)

Citation (search report)

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- [X] US 5983978 A 19991116 - VINING RALPH [US], et al
- [A] US 5525374 A 19960611 - RITLAND MARCUS A [US], et al

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