

Title (en)
Semi-solid casting method and charge

Title (de)
Verfahren zum Giessen halbfester Metalle und Einsatzstoff

Title (fr)
Procédé de moulage à l'état semi solide et charge

Publication
EP 1900455 A1 20080319 (EN)

Application
EP 07013338 A 20070707

Priority
US 52082906 A 20060913

Abstract (en)
A semi-solid casting method for casting a solid-fraction alloy, comprising heating said alloy to a molten liquid state, cooling and stirring said alloy to nucleate and create a partial solid phase of said solid-fraction, and transferring said alloy while in said partial solid phase of said solid-fraction to a casting machine, characterized in that the method is used with a low-solid-fraction, namely 10 to 30% solid-fraction, alloy.

IPC 8 full level
B22D 17/00 (2006.01); **B22D 21/00** (2006.01); **C22C 1/00** (2006.01)

CPC (source: EP US)
B22D 17/007 (2013.01 - EP US); **B22D 21/007** (2013.01 - EP US); **C22C 1/12** (2023.01 - EP US)

Citation (search report)

- [X] WO 2006062482 A1 20060615 - WESSEN MAGNUS [SE], et al
- [X] US 2005161127 A1 20050728 - ADACHI MITSURU [JP], et al
- [X] EP 0663251 A1 19950719 - RHEO TECHNOLOGY LTD [JP]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

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EP 1900455 A1 20080319; AU 2007216614 A1 20080403; CA 2587816 A1 20080313; JP 2008068321 A 20080327;
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EP 07013338 A 20070707; AU 2007216614 A 20070830; CA 2587816 A 20070507; JP 2007211485 A 20070814; US 52082906 A 20060913