Title (en)
METHOD FOR PRODUCING ADDITIONS AND HARDENERS FOR PRODUCING ALLOYS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON ZUSATZSTOFFEN UND HÄRTUNGSMITTELN ZUR HERSTELLUNG VON LEGIERUNGEN

Title (fr)
PROCÉDÉ DE PRODUCTION D ADDITIFS ET DE PRÉ-ALLIANGES DESTINÉS À LA FABRICATION D ALLIAGES

Publication
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Application
EP 09798191 A 20090313

Priority
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• RU 2008129154 A 20080717

Abstract (en)
[origin: EP2312003A1] The invention relates to metallurgy, in particular to methods for producing alloying additions used in the production of different alloys. The method consists in melting and creating a process-required superheating above the liquidus temperature of a base metal and production ingredients, agitating the melt, filtering the melt and crystallising the superheated melt in the centrifuge force fields at different gravitation factors ranging from 20 to 500 so as to produce casts in the form of substitutional-interstitial solid solutions. The processing of the cast by a centrifuge force field is carried out until the temperature of the cooling cast achieves the temperature of the crystallisation termination process in regular conditions. The invention makes it possible to modify the crystallisation conditions of additions in external force fields by speeding up processes in melts at the stage of the crystalline structure formation.

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B22D 13/026 (2013.01); **C22C 1/02** (2013.01); **C22C 21/00** (2013.01)

Citation (search report)
• [X] WO 2008075995 A1 20080626 - ANISIMOV OLEG VLADIMIROVICH [RU]
• [AD] RU 2296175 C1 20070327 - ANISIMOV OLEG VLADIMIROVICH [RU]
• See references of WO 2010008316A1

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