

Title (en)

GRAIN REFINEMENT AGENT COMPRISING TITANIUM NITRIDE AND METHOD FOR MAKING SAME

Title (de)

TITANNITRID ENTHALTENDES KORNVERFEINERUNGSMITTEL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

AGENT D AFFINAGE DE GRAIN COMPORANT DU NITRURE DE TITANE ET PROCEDE DE FABRICATION D UN TEL AGENT

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Application

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Abstract (en)

[origin: WO2006120322A1] The invention relates to a grain refinement agent for treating a liquid metal selected from aluminium, magnesium or a respective alloy thereof. The agent comprises at least 5 wt % of titanium nitride and at least one powder additive having a melting point lower than the treatment temperature of the metal or alloy of which the grain is to be refined. The powder additive is preferably suitable for inclusion in the composition of the metal or alloy to be treated. The refinement agent is preferably in the form of a compressed blend such as a pellet so that it is easier to add and dissolve the refinement agent during the treatment of the liquid metal or alloy, and the titanium nitride can be quickly and efficiently dispersed in the molten metal or alloy.

IPC 8 full level

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