

Title (en)

A method for producing composite zones in castings

Title (de)

Verfahren zur Herstellung von Verbundzonen in Gussteilen

Title (fr)

Procédé de production de zones composites dans des pièces coulées

Publication

EP 2650064 A2 20131016 (EN)

Application

EP 13460021 A 20130408

Priority

PL 39877012 A 20120410

Abstract (en)

A method for producing composite zones in castings, characterised in that on the walls and / or on the bottom of a foundry mould or die, shaped inserts are placed, comprising the reactants of synthesis of the selected type of carbide undergoing the SHS reaction, wherein the group of carbides comprises carbides of niobium, titanium, molybdenum, tantalum, vanadium, tungsten and zirconium, and wherein the mutual atomic ratio of components necessary for the reaction of the formation of a given carbide is corresponding to the stoichiometry of this carbide, and wherein the shaped inserts comprising a metal - graphite mixture are prepared by the known methods of powder metallurgy, and when placed in the mould cavity or die cavity are poured with the previously prepared iron-based cast alloy.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

- PL 190605 A1 19780102 - B PK PRZEMY MAT BUDOWLANYCH
- PL 167197 B1 19950831 - INST METALI NIEZELAZNYCH [PL]
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