

Title (en)
METHOD FOR PRODUCING A CERAMIC CORE FOR THE PRODUCTION OF A CASTING HAVING HOLLOW STRUCTURES AND CERAMIC CORE

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES KERAMISCHEN KERNS FÜR DAS HERSTELLEN EINES GUSSTEILS MIT HOHLRAUMSTRUKTUREN SOWIE KERAMISCHER KERN

Title (fr)
PROCÉDÉ DE FABRICATION D'UN NOYAU CÉRAMIQUE DESTINÉ À LA FABRICATION D'UNE PIÈCE COULÉE DOTÉE DE STRUCTURES CREUSES, ET NOYAU CÉRAMIQUE

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Application
EP 19701592 A 20190117

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Abstract (en)
[origin: WO2019141783A1] The invention relates to a method for producing a ceramic core (4, 4'), and to a core produced by means of said method, for preparing the production of a casting having hollow structures, which is designed to form the ceramic core, using a 3D model of digital geometric coordinates of the casting, said method comprising the following steps: a) producing, by casting, at least one first sub-region (4) of the ceramic core including at least one first joining structure (24) in a surface of the sub-region; b) producing, by casting or by 3D printing, at least one second sub-region (4') of the ceramic core including at least one second joining structure (26) complementary to the first joining structure, in a surface of the sub-region, the production by casting comprising the following steps: i. pressureless or low-pressure casting of a ceramic core blank, with an oversize in relation to the core (4, 4') according to the geometric coordinates; ii. CNC-machining of the core (4, 4') according to the 3D model in a first CNC-machining method; and c) joining the at least one first and at least one second sub-region of the core, with the complementary joining structures, to form the core according to geometric coordinates of the casting.

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