

Title (en)

Process for the manufacture of ceramic molds to be used for the preparation of unidirectional and single crystal metal components.

Title (de)

Verfahren zur Herstellung von keramischen Formen zur Herstellung von Einkristall- und Unidirektional-Gegenständen aus Metall.

Title (fr)

Procédé pour la fabrication de moules céramiques pour préparer des pièces métalliques monocristallines et unidirectionnelles.

Publication

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Application

EP 92114510 A 19920826

Priority

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Abstract (en)

In the manufacture of ceramic molds starting from aqueous suspensions, the combination of products already known in the field of ceramic molds (although not bound to the production of unidirectional and single crystal metal components), together with a particular coating sequence and with particular drying and sintering proceedings, allows one to considerably reduce the overall manufacturing time, in particular the drying time, as well as to improve the quality of the castings.

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [Y] US 4131475 A 19781226 - SVEC PAUL S
- [Y] HENDRICKS M. J., HSU D. W. D.: "PROCESSING AND FIRING INFLUENCES ON CERAMIC SHELL MATERIALS.", FOUNDRY TRADE JOURNAL., INSTITUTE OF CAST METALS ENGINEERS, WEST BROMWICH., GB, vol. 165., no. 3434., 7 June 1991 (1991-06-07), GB, pages 402 - 403 + 405 + 40, XP000205348, ISSN: 0015-9042

Cited by

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