

Title (en)

Method for enamelling cast parts of standard hypoeutectic gray iron

Title (de)

Verfahren zur Emaillierung von Teilen aus hypoeutektischem Standardgrauguß

Title (fr)

Procédé d'emailage de pièces de fonte grise hypoeutectique standardisée

Publication

EP 1767668 A1 20070328 (EN)

Application

EP 05108791 A 20050923

Priority

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Abstract (en)

The present invention refers to a method for enamelling cast parts made of standard hypoeutectic gray iron, comprising following steps: - preparing a cast part of standard hypoeutectic gray iron; - pre-treating said cast part in order to promote mechanical bond and adherence of the enamel substances to the surface of the part to be enamelled; - applying porcelain-enamel powders onto the thus pre-treated part by dry electrostatic spray technique; - vitrifying the enamel powders by exposing the part to a heating and cooling sequence occurring according to such a heating and cooling pattern versus time as to cause the part to dwell at a temperature between 700°C and 780°C for 480 seconds \pm 5%.

IPC 8 full level

C23D 5/04 (2006.01)

CPC (source: EP)

C23D 5/04 (2013.01)

Citation (search report)

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- [A] GB 1580154 A 19801126 - FERRO CORP
- [A] GB 398289 A 19330914 - JOSEPH & JESSE SIDDON LTD, et al
- [A] US 5512521 A 19960430 - FU DECHUN [US], et al

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US2022404026A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

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