

Title (en)
FOUNDRY ADDITIVE BASED ON GRAPHITE

Title (de)
GIESSEREIADDITIV AUF GRAFITBASIS

Title (fr)
ADDITIF DE FONDERIE À BASE DE GRAPHITE

Publication
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Application
EP 10752733 A 20100910

Priority
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• EP 2010005573 W 20100910

Abstract (en)
[origin: WO2011032668A2] The invention relates to a foundry additive which contains a finely ground, preferably microcrystalline or amorphous graphite. Said graphite has an average particle size of D50 of less than 100 µm and preferably an average crystallite size of less than 70 nm. The invention also relates to a moulding material mixture which contains the foundry additive, to a method for producing said foundry additive, to a foundry mould made from a grainy, fire-proof moulding material which contains the foundry additive and to the use of the foundry mould for the cast metal.

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Citation (opposition)
Opponent : Imerys Metalcasting Germany GmbH, Oberhausen, DE
• DE 3246324 A1 19840719 - SCHMIDT EWALD CARBOFORM CBF [DE]
• WO 9850181 A1 19981112 - AMCOL INTERNATIONAL CORP [US]
• EP 2233226 A1 20100929 - KAO CORP [JP]
• JP 2008011114 A 20080117 - NTT DOCOMO INC
• US 1758095 A 19300513 - WALLACE BENJAMIN F
• GB 357126 A 19310914 - BENJAMIN FRANKLIN WALLACE
• US 1868646 A 19320726 - WALLACE BENJAMIN F
• EP 0279031 A1 19880824 - IKO GMBH & CO KG [DE]
• DE 102007027621 A1 20081218 - S & B IND MINERALS GMBH [DE]
• FRITZ ULLMANN, CARBON, ULLMANN'S ENCYCLOPEDIA OF INDUSTRIAL CHEMISTRY, 1986
• E. CRESPO ET AL., INFLUENCE OF GRINDING ON GRAPHITE CRYSTALLINITY FROM EXPERIMENTAL AND NATURAL DATA: IMPLICATIONS FOR GRAPHITE THERMOMETRY AND SAMPLE PREPARATION, IN MINERALOGICAL MAGAZINE, vol. 70, no. 6, December 2006 (2006-12-01), pages 697 - 707

Designated contracting state (EPC)
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DOCDB simple family (publication)
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