

Title (en)

Method for the production of ceramic shell moulds for casting with a lost mould.

Title (de)

Verfahren zur Herstellung keramischer Giessmasken zum Giessen mit verlorenem Modell.

Title (fr)

Procédé de fabrication d'un moule carapace en matériau céramique pour fonderie à modèle perdu.

Publication

EP 0663249 A1 19950719 (FR)

Application

EP 95400050 A 19950111

Priority

FR 9400242 A 19940112

Abstract (en)

A process is claimed for the fabrication of a ceramic shell mould for an investment casting foundry, consisting of: producing a model (1) in two parts (2,4) in a material that will be eliminated by fusion, sublimation or thermal degradation; assembling the two parts (2,4) of the model (1) by sticking them together to form a model (1) with an internal hollow or cavity (12); filling the internal cavity (12) with a ceramic material; simultaneous or subsequent prodn. of a shell mould in a ceramic material including the filled model which can be eliminated to leave a foundry mould with an internal core produced in situ.

IPC 1-7

B22C 7/02; **B22C 9/04**

IPC 8 full level

B22C 7/02 (2006.01); **B22C 9/04** (2006.01)

CPC (source: EP US)

B22C 7/02 (2013.01 - EP US); **B22C 9/04** (2013.01 - EP US)

Citation (search report)

- [A] WO 8505583 A1 19851219 - COSWORTH RES & DEV LTD [GB]
- [A] DE 3300968 A1 19840802 - SCHMIDT PFEIL BERND W
- [A] GB 440296 A 19351224 - ERIK GUSTAF AKERLUND, et al
- [A] DONALD R. DREGER: "FULL-MOLD CASTING GOES MASS PRODUCTION", MACHINE DESIGN VOL.54 (1982) NOV., NO.27, CLEVELAND, OHIO, USA, PAGE 47-51
- [A] R. F. SMART: "Investment casting for the future", FOUNDRY TRADE JOURNAL 161(1987) 12 MARS, NO. 3344, REDHILL, SURREY, GR. BRITAIN, PAGE 184, 187, 189, 190
- [A] PATENT ABSTRACTS OF JAPAN vol. 4, no. 105 (M - 23) 26 July 1980 (1980-07-26)
- [A] PATENT ABSTRACTS OF JAPAN vol. 17, no. 675 (M - 1526) 13 December 1993 (1993-12-13)
- [A] RICHARD SOUTHGATE: "PRECISION CASTING SUPPLEMENT", FOUNDRY TRADE JOURNAL VOL.154 (1983) MAR., NO. 3258, BRIGHTON, GREAT BRITAIN. PAGE 315-318, 321, 322

Cited by

WO2008068075A1; EP1930096A1; US8074701B2

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