

Title (en)

INVESTMENT CASTING COMPOSITIONS, MOLDS, AND RELATED METHODS

Title (de)

ZUSAMMENSETZUNGEN FÜR PRÄZISIONSFÖRMIGUSS, FORMEN UND ZUGEHÖRIGE VERFAHREN

Title (fr)

COMPOSITIONS DE MOULAGE À LA CIRE PERDUE, MOULES, ET PROCÉDÉS ASSOCIÉS

Publication

**EP 3137244 A1 20170308 (EN)**

Application

**EP 15724405 A 20150429**

Priority

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- US 2015028193 W 20150429

Abstract (en)

[origin: WO2015168233A1] Provided are slurry compositions and methods for producing investment casting molds. These compositions include a refractory material, a binder, a solvent, and a thixotropic agent comprising a polymer emulsion. Implementation of these slurry compositions enables a reduction in the number of backup layers in an investment casting shell, while retaining similar viscosity characteristics and similar or greater strength characteristics in the finished investment mold.

IPC 8 full level

**B22C 1/22** (2006.01)

CPC (source: CN EP US)

**B22C 1/02** (2013.01 - CN); **B22C 1/08** (2013.01 - EP US); **B22C 1/165** (2013.01 - EP US); **B22C 1/183** (2013.01 - EP US); **B22C 1/186** (2013.01 - EP US); **B22C 1/22** (2013.01 - EP US); **B22C 7/02** (2013.01 - EP US); **B22C 9/04** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2015168233A1

Citation (examination)

DANIELS HESSELBARTH ET AL: "Mechanical Properties of Coagulated Wet Particle Networks with Alkali-Swellable Thickeners", JOURNAL OF THE AMERICAN CERAMIC SOCIETY, vol. 84, no. 8, 1 August 2001 (2001-08-01), US, pages 1689 - 1695, XP055742308, ISSN: 0002-7820, DOI: 10.1111/j.1151-2916.2001.tb00900.x

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