

Title (en)
METHOD OF PURIFYING AND CASTING MATERIALS

Title (de)
VERFAHREN ZUM REINIGEN VON GIESSEN VON MATERIALIEN

Title (fr)
PROCÉDÉ DE PURIFICATION ET DE MOULAGE DE MATÉRIAUX

Publication
EP 3268983 A4 20180725 (EN)

Application
EP 16762122 A 20160225

Priority
• US 201562130985 P 20150310
• US 2016019490 W 20160225

Abstract (en)
[origin: WO2016144557A1] A method of purifying and casting a material comprising placing a material to be purified within a crucible, the crucible located within a purification chamber; providing thermal energy to the material to maintain the material in a molten state; providing a purification gas into the molten material to purify the material until a first measured condition is attained; passing the material in a fluid state from the purification chamber having a first atmosphere to a casting chamber having a second atmosphere, the purification chamber in fluid communication with the casting chamber such that the material passes from the purification chamber to the casting chamber without exposure to a third atmosphere; placing the material into a mold within the casting chamber; cooling the material within the mold to form a cast material.

IPC 8 full level
H01L 21/302 (2006.01)

CPC (source: EP KR US)
B22D 1/002 (2013.01 - EP KR US); **B22D 21/027** (2013.01 - EP KR US); **C22B 9/05** (2013.01 - EP KR US)

Citation (search report)
• [A] EP 1249520 A1 20021016 - OPTOSCINT INC [US]
• [A] US 3226102 A 19651228 - PAGONIS GEORGE A
• [I] US 5275228 A 19940104 - WORTMANN JUERGEN [DE], et al
• See references of WO 2016144557A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2016144557 A1 20160915; EP 3268983 A1 20180117; EP 3268983 A4 20180725; JP 2018515686 A 20180614; KR 20170125866 A 20171115; US 2018044761 A1 20180215

DOCDB simple family (application)
US 2016019490 W 20160225; EP 16762122 A 20160225; JP 2017546962 A 20160225; KR 20177026868 A 20160225; US 201615556564 A 20160225