

Title (en)
METHOD FOR PRODUCING A HOLLOW BODY BY COLD SPRAYING AND MOULD CORE SUITABLE FOR CARRYING OUT SAID METHOD

Title (de)
VERFAHREN ZUM HERSTELLEN EINES HOHLKÖRPERS MITTELS KALTGASSPRITZEN UND ZUR DURCHFÜHRUNG DIESES VERFAHRENS GEEIGNETER FORMKERN

Title (fr)
PROCÉDÉ DE FABRICATION D'UN CORPS CREUX PAR PULVÉRISATION PAR GAZ FROID ET NOYAU DE FORMAGE APPROPRIÉ POUR LA MISE EN UVRE DUDIT PROCÉDÉ

Publication
EP 3102718 A2 20161214 (DE)

Application
EP 15712560 A 20150318

Priority

- DE 102014206073 A 20140331
- EP 2015055611 W 20150318

Abstract (en)
[origin: CA2944238A1] The invention relates to a method for producing a hollow body (23) by cold spraying. According to the invention, a mould core (16) is used for producing the hollow body, said mould core being prepared for the production of the hollow body (23) by cold spraying in a suitable manner by means of an auxiliary layer (21). The auxiliary layer (21) consists of a metallic material and therefore forms a suitable surface to which the particles processed by cold spraying remain adhered to form the hollow body (23). The mould core, to which the invention also relates, can therefore advantageously be produced from an inexpensive material such as sand or wood, although said materials are in principle only suitable to a limited extent or not at all for depositing metals by cold spraying. The auxiliary layer (21) can advantageously be applied to the mould core (16) as a foil, or be produced on the mould core (16) by cold-spraying particularly low-melting and/or soft materials.

IPC 8 full level
C23C 24/04 (2006.01); **B22F 3/00** (2006.01); **C23C 28/02** (2006.01)

CPC (source: EP US)
C23C 24/04 (2013.01 - EP US); **C23C 28/021** (2013.01 - EP US); **C23C 28/023** (2013.01 - EP US); **C23C 28/025** (2013.01 - EP US); **C23C 28/027** (2013.01 - EP US); **B22F 2005/103** (2013.01 - EP US)

Citation (search report)
See references of WO 2015150071A2

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102014206073 A1 20151001; CA 2944238 A1 20151008; EP 3102718 A2 20161214; JP 2017512908 A 20170525; US 2017022615 A1 20170126; WO 2015150071 A2 20151008; WO 2015150071 A3 20151126

DOCDB simple family (application)
DE 102014206073 A 20140331; CA 2944238 A 20150318; EP 15712560 A 20150318; EP 2015055611 W 20150318; JP 2016560489 A 20150318; US 201515300851 A 20150318