

Title (en)
PRE-PRODUCT FOR THE PRODUCTION OF SINTERED METALLIC COMPONENTS, A METHOD FOR PRODUCING THE PRE-PRODUCT AND THE PRODUCTION OF COMPONENTS

Title (de)
VORPRODUKT FÜR DIE HERSTELLUNG GESINTERTER METALLISCHER BAUTEILE, EIN VERFAHREN ZUR HERSTELLUNG DES VORPRODUKTS SOWIE DIE HERSTELLUNG DER BAUTEILE

Title (fr)
PRÉCURSEUR POUR LA PRODUCTION DE PIÈCES MÉTALLIQUES FRITTÉES, PROCÉDÉ DE PRODUCTION DU PRÉCURSEUR, ET PRODUCTION DESDITES PIÈCES

Publication
EP 2376245 A1 20111019 (DE)

Application
EP 09763903 A 20091113

Priority
• EP 2009065129 W 20091113
• DE 102008062614 A 20081211

Abstract (en)
[origin: CA2746010A1] The invention relates to a pre-product for the production of sintered metallic components, to a method for producing the pre-product and to the production of components. The aim of the invention is to create capabilities for producing sintered metallic components that enable increased physical density and reduced contraction on the finish-sintered component. In a pre-product for the production of sintered metallic components according to the invention, an enveloping layer is formed on a core that is formed from a first particle of a first metallic powder. The enveloping layer is formed by a second powder and a binder. The first powder has a particle size d90 of at least 50 µm and the second powder has a particle size d90 smaller than 25 µm. The pre-product is in powder form.

IPC 8 full level
B22F 1/00 (2022.01); **B22F 1/052** (2022.01); **B22F 1/10** (2022.01); **C22C 1/04** (2006.01)

CPC (source: EP KR US)
B22F 1/00 (2013.01 - EP KR US); **B22F 1/052** (2022.01 - EP KR US); **B22F 1/10** (2022.01 - EP KR US); **C22C 1/04** (2013.01 - EP KR US); **Y10T 428/12181** (2015.01 - EP US); **Y10T 428/2991** (2015.01 - EP US)

Citation (search report)
See references of WO 2010066529A1

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
DE 102008062614 A1 20100617; BR PI0923363 A2 20150721; CA 2746010 A1 20100617; CN 102245332 A 20111116; EP 2376245 A1 20111019; JP 2012511629 A 20120524; KR 20110099708 A 20110908; MX 2011005902 A 20110620; TW 201039945 A 20101116; US 2011229918 A1 20110922; US 2011243785 A1 20111006; WO 2010066529 A1 20100617

DOCDB simple family (application)
DE 102008062614 A 20081211; BR PI0923363 A 20091113; CA 2746010 A 20091113; CN 200980149949 A 20091113; EP 09763903 A 20091113; EP 2009065129 W 20091113; JP 2011539987 A 20091113; KR 20117014937 A 20091113; MX 2011005902 A 20091113; TW 98142171 A 20091210; US 200913133670 A 20091113; US 74219808 A 20081107