

Title (en)

METHOD AND APPARATUS FOR CONSOLIDATION IN LAYERS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERFESTIGUNG IN SCHICHTEN

Title (fr)

PROCEDE ET APPAREIL POUR CONSOLIDATION PAR COUCHES

Publication

EP 1963038 A4 20100526 (EN)

Application

EP 06835732 A 20061220

Priority

- NO 2006000491 W 20061220
- US 75224205 P 20051220

Abstract (en)

[origin: WO2007073205A1] The invention relates to a method and apparatus for building an object by the layer-wise deposition of powder layers, the powder layers including building powder being transformed into an object, wherein the building powder is consolidated and made of metal or ceramic mixed with metal. The powder layer is arranged on a printing face of a piston and deposited in a pressure pulse onto a building table or a work piece, wherein the work piece includes previously deposited powder layers, and wherein the work piece is surrounded by a mould being at the sintering temperature of the building powder throughout the construction of the object.

IPC 8 full level

B22F 3/105 (2006.01); **B22F 3/14** (2006.01)

CPC (source: EP US)

B22F 3/14 (2013.01 - EP US); **B22F 3/16** (2013.01 - EP); **B22F 10/20** (2021.01 - EP US); **B22F 12/10** (2021.01 - EP US); **B22F 10/43** (2021.01 - EP US); **Y02P 10/25** (2015.11 - EP)

Citation (search report)

- [A] EP 1099534 A2 20010516 - MASSACHUSETTS INST TECHNOLOGY [US]
- See references of WO 2007073205A1

Cited by

CN113399664A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007073205 A1 20070628; EP 1963038 A1 20080903; EP 1963038 A4 20100526; WO 2007073206 A1 20070628

DOCDB simple family (application)

NO 2006000491 W 20061220; EP 06835732 A 20061220; NO 2006000492 W 20061220