

Title (en)

Set of strata, mould, methods for producing said model and for manufacturing a part using said model

Title (de)

Schichteinheit, Modell, Herstellungsverfahren dieses Modells sowie Herstellungsverfahren eines Werkstücks aus diesem Modell

Title (fr)

Ensemble de strates, moule, procédés de confection de ce modèle et de fabrication d'une pièce à partir de ce modèle

Publication

EP 2397245 A1 20111221 (FR)

Application

EP 11166679 A 20110519

Priority

FR 1054148 A 20100528

Abstract (en)

The set of layers comprises a first layer (10), and a second layer to be stacked on the first layer in a direction of stacking. The first layer includes three non-functional projections (20, 21, 22) that extend in the direction of stacking and along non-colinear axis, and a functional projection (16, 18) with shield, where the functional projection is in contact with a refractory material when the two layers are stacked. The second layer comprises a recess capable of completely covering the non-functional projections when the two layers are stacked. The set of layers comprises a first layer (10), and a second layer to be stacked on the first layer in a direction of stacking. The first layer includes three non-functional projections (20, 21, 22) that extend in the direction of stacking and along non-colinear axis, and a functional projection (16, 18) with shield, where the functional projection is in contact with a refractory material when the two layers are stacked. The second layer comprises a recess capable of completely covering the non-functional projections when the two layers are stacked so as to prevent contact between the non-functional projection and the refractory material. A height of the non-functional projection in the direction of stacking is greater than a height of the functional projection in the same direction of stacking. Independent claims are included for: (1) a non-permanent mold; and (2) a process for making a model for manufacturing a part by a non-permanent mold made of refractory material.

Abstract (fr)

L'invention concerne un ensemble de strates pour la réalisation d'un modèle pour la fabrication d'une pièce par moulage à moule non permanent en matériau réfractaire, cet ensemble comportant : - une première strate (10) comprenant une saillie (22) non fonctionnelle s'étendant selon la direction d'empilement, et - une seconde strate apte à être empilée sur la première strate (10) selon une direction d'empilement, comprenant un renforcement apte à recouvrir la saillie (22) non fonctionnelle en totalité lorsque ces deux strates sont empilées de manière à empêcher un contact entre la saillie (22) non fonctionnelle et le matériau réfractaire.

IPC 8 full level

B22C 7/02 (2006.01)

CPC (source: EP)

B22C 7/026 (2013.01)

Citation (search report)

- [X] JP S62282747 A 19871208 - TOYOTA MOTOR CORP
- [A] EP 0901850 A1 19990317 - PEUGEOT [FR], et al
- [A] WO 2006075344 A2 20060720 - MECCANICA BASSI S P A [IT], et al

Cited by

FR3051129A1; FR3098422A1; EP2949409A1

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)

EP 2397245 A1 20111221; EP 2397245 B1 20181121; FR 2960457 A1 20111202; FR 2960457 B1 20120720

DOCDB simple family (application)

EP 11166679 A 20110519; FR 1054148 A 20100528