

Title (en)
Manufacture of moulded blanks from high-grade silicon

Title (de)
Aufbereitung von Formlingen aus Reinstsilizium

Title (fr)
Préparation de pièces brutes en silicium pur

Publication
EP 2052848 A1 20090429 (DE)

Application
EP 08015189 A 20080828

Priority
DE 102007051484 A 20071027

Abstract (en)
The device has a mold-chamber (25) for receiving a powder, where the chamber is partially limited by a side of a mold-chamber-wall (26). A feeding device (1) is provided for feeding the powder into the mold-chamber. A compression unit (2) is provided for compressing the powder into the mold-chamber. The mold-chamber-wall consists of non-metallic material in a region of a side facing the mold-chamber. The mold-chamber is locked by a plunger (36), which consists of non-metallic material. An independent claim is also included for a method for manufacturing a shaped product from powder.

Abstract (de)
Vorrichtung zur Formgebung eines Formlings aus einem Pulver umfassend mindestens eine zumindest teilweise durch mindestens eine Seite mindestens einer Form-Kammer-Wand (26) begrenzte Form-Kammer (25) zur Aufnahme eines Pulvers, eine Zuführ-Einrichtung (1) zum Zuführen des Pulvers in die mindestens eine Form-Kammer (25) und eine Verdichtungs-Einrichtung (2) zur Verdichtung des Pulvers in der mindestens einen Form-Kammer (25), wobei die mindestens eine Form-Kammer-Wand (26) zumindest im Bereich der der Form-Kammer (25) zugewandten Seite aus einem nichtmetallischen Material besteht.

IPC 8 full level
B28B 3/00 (2006.01); **B30B 11/00** (2006.01); **B30B 15/00** (2006.01); **B30B 15/30** (2006.01)

CPC (source: EP)
B28B 3/003 (2013.01); **B28B 5/08** (2013.01); **B28B 13/0215** (2013.01); **B28B 13/023** (2013.01); **B30B 11/001** (2013.01); **B30B 15/0017** (2013.01); **B30B 15/302** (2013.01)

Citation (applicant)
• WO 2005118272 A1 20051215 - JOINT SOLAR SILICON GMBH & CO [DE], et al
• US 3698843 A 19721017 - BOWLES ARNOLD G, et al
• US 3956452 A 19760511 - SAITO SHINROKU
• JP H0989465 A 19970404 - NGK INSULATORS LTD
• US 3730666 A 19730501 - BOWLES A G
• US 5747037 A 19980505 - NOELLE RANDOLPH J [US], et al
• US 4604252 A 19860805 - STIGLER ANTON [DE]
• EP 0414601 A1 19910227 - COMMISSARIAT ENERGIE ATOMIQUE [FR]

Citation (search report)
• [XY] WO 2005118272 A1 20051215 - JOINT SOLAR SILICON GMBH & CO [DE], et al
• [Y] EP 0414601 A1 19910227 - COMMISSARIAT ENERGIE ATOMIQUE [FR]
• [X] US 3698843 A 19721017 - BOWLES ARNOLD G, et al
• [X] US 3956452 A 19760511 - SAITO SHINROKU
• [X] JP H0989465 A 19970404 - NGK INSULATORS LTD
• [XA] US 3730666 A 19730501 - BOWLES A G
• [XA] US 5747073 A 19980505 - PETTERSSON BJORN OLA ALFONS [US], et al
• [XA] US 4604252 A 19860805 - STIGLER ANTON [DE]

Cited by
CN102126307A; DE102016114586B4

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

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EP 08015189 A 20080828; DE 102008044687 A 20080828; EP 2008009001 W 20081024