

Title (en)

DEVICE FOR HIGH-DENSITY MOLDING AND METHOD FOR HIGH-DENSITY MOLDING OF MIXED POWDER

Title (de)

VORRICHTUNG FÜR HOCHDICHTER FORMUNG UND VERFAHREN ZUR HOCHDICHTEN FORMUNG VON MISCHPULVER

Title (fr)

DISPOSITIF DE MOULAGE HAUTE DENSITÉ ET PROCÉDÉ DE MOULAGE HAUTE DENSITÉ DE POUDRE MIXTE

Publication

**EP 2842665 A4 20160309 (EN)**

Application

**EP 13780764 A 20130422**

Priority

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- JP 2013061739 W 20130422

Abstract (en)

[origin: EP2842665A1] A first die (21D) is filled with a mixed powder (100) that is a mixture of a basic metal powder and a low-melting-point lubricant powder. A first pressure is applied to the mixed powder to form a mixed powder intermediate compressed body (110) having a protrusion (110A) that protrudes in the pressing direction as compared with the configuration of a mixed powder final compressed body (120). The mixed powder intermediate compressed body (110) is heated to the melting point of the lubricant powder. The heated mixed powder intermediate compressed body (110) is placed in a second die (41D). A second pressure is applied to the mixed powder intermediate compressed body (110) to press-mold the mixed powder intermediate compressed body (110) while crushing the protrusion (110A) in the pressing direction to form the high-density mixed powder final compressed body (120) having high density and the desired configuration.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- No further relevant documents disclosed
- See references of WO 2013161744A1

Cited by

US10354790B2; US11508512B2; US11636970B2

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