Title (en)
PRESSED POWDER ELEMENT FORMING MACHINE

Title (de)
KOMPAKTPULVERZUSAMMENSETZUNG-ELEMENTUMFORMMASCHINE

Title (fr)
MACHINE DE FORMATION D'ÉLÉMENT EN POUDRE COMPRIMÉE

Publication
EP 3165357 A1 20170510 (EN)

Application
EP 15193550 A 20151106

Priority
EP 15193550 A 20151106

Abstract (en)
A pressed powder element forming machine is provided, in which an adjustable core insert (14) is provided in a compression chamber (11) of a machine body (1) and a forming space (15) is provided between the compression chamber (11) and the core insert (14). A sealing cover (2) is used to close the forming space (15) through a breathable material (3). When making dry or wet pressed powder element, dry loose powder or wet loose powder is fed into the forming space (15) and the core insert (14) is actuated to press the dry loose powder or wet loose powder into pre-pressed powder blank. Simultaneously, an evacuating power source connected between the sealing cover (2) and the machine body (1) performs air evacuation or solvent extraction from the forming space (15), so as to press the loose powder into compact pressed powder element (5). In this manner, production efficiency of making pressed powder element (5) is increased.

IPC 8 full level
B30B 15/00 (2006.01); **B28B 7/44** (2006.01); **B28B 7/46** (2006.01)

CPC (source: EP)
B28B 3/027 (2013.01); **B28B 7/44** (2013.01); **B28B 7/46** (2013.01); **B30B 15/0017** (2013.01)

Citation (applicant)
- US 8636933 B2 20140128 - GILG FRANZ X [DE], et al
- TW M370963 U 20091221 - HAO YING MACHINE ENTPR CO LTD [TW]

Citation (search report)
- [XI] US 4884601 A 19891205 - HATAKEYAMA YOSHIHARU [JP], et al
- [X] US 2770025 A 19561113 - JOSEF MOLLERS
- [X] US 2026940 A 19360107 - HENDRYX DWIGHT B

Cited by
CN112140282A; CN114261130A

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

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