

Title (en)  
Method of Compacting Support Particulates

Title (de)  
Verfahren zur Verdichtung von Trägerpartikeln

Title (fr)  
Procédé de compactage de particules de support

Publication  
**EP 1944104 A1 20080716 (EN)**

Application  
**EP 08150013 A 20080102**

Priority  
US 65193507 A 20070110

Abstract (en)  
Method and apparatus for compacting support particulates media around ceramic shell molds and around fugitive patterns wherein the mold or pattern is placed in a container and the container is filled with support particulates media. The container is set to rotating and vibrating while it is tilted. The combination of rotation and tilting cause voids at the wall of the mold or pattern to be constantly and methodically reoriented so that the free surface of the support media in the voids is moved past its dynamic angle of repose and is caused to flow into those voids by the combined action of the vibration and the constantly changing orientation of the voids relative to the gravity vector.

IPC 8 full level  
**B22C 9/04** (2006.01); **B22C 15/10** (2006.01)

CPC (source: EP KR)  
**B22C 9/046** (2013.01 - EP); **B22C 9/20** (2013.01 - KR); **B22C 15/10** (2013.01 - EP); **B22C 15/12** (2013.01 - KR); **B22C 15/20** (2013.01 - KR); **B22C 15/28** (2013.01 - KR)

Citation (applicant)  
• US 3581805 A 19710601 - HEDBERG OLOF JOHAN GERHARD  
• EP 0242473 A2 19871028 - GEN KINEMATICS CORP [US]  
• DE 102004027638 B3 20060209 - ALBERT HANDTMANN METALLGUSWERK [DE]  
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Citation (search report)  
• [X] US 3581805 A 19710601 - HEDBERG OLOF JOHAN GERHARD  
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CN114433794A

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

DOCDB simple family (publication)  
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**EP 08150013 A 20080102**; BR PI0800020 A 20080109; CA 2617365 A 20080107; CN 200810002603 A 20080108; JP 2008003282 A 20080110; KR 20080003116 A 20080110; MX 2008000471 A 20080109