

Title (en)

Compaction control apparatus and method by means of isostatic moulds

Title (de)

Verdichtungsüberwachungsvorrichtung und -Verfahren für eine isostatische Presse

Title (fr)

Appareil et procédé pour contrôler le compactage par un dispositif de compression isostatique

Publication

EP 1716998 A2 20061102 (EN)

Application

EP 06075716 A 20060328

Priority

IT RE20050042 A 20050426

Abstract (en)

Control system of the compaction of the powder in a ceramic mould by means of a punch of isostatic type comprising an air space within which a quantity of oil is situated which is sufficient to support the elastic pressing membrane, in which said air space, at every compaction cycle, is placed in communication with a tank (6) and a pump (7) of feeding by means of a volumetric metering device (5) which sends the desired quantity of oil to the air space of the mould, said metering device being associated with detection and reading means (56) of the oil quantity sent to the mould air space, and being associated with valve means (81, 82, 83) of delivering, blocking and discharging the oil to the, in the, and from the mould air space, to ensure the presence in said air space of a prearranged oil volume for every step of the compaction cycle.

IPC 8 full level

B28B 3/00 (2006.01); **B28B 17/00** (2006.01); **B30B 5/02** (2006.01); **F15B 11/13** (2006.01); **F15B 21/00** (2006.01)

CPC (source: EP)

B28B 3/003 (2013.01); **B28B 17/0081** (2013.01); **B30B 5/02** (2013.01)

Citation (applicant)

- JP 2003260600 A 20030916 - KITAGAWA ELABORATE MACH
- GB 1234978 A 19710609 - BRUECK SCHLOESSER & CO G M B H
- DE 4320203 A1 19941222 - B & B MASCHINENBAU GMBH [DE]
- EP 0659572 A2 19950628 - SEIKO EPSON CORP [JP]
- US 4718842 A 19880112 - LABBE PHILIPPE [FR], et al

Cited by

CN108818883A; EP3401068A3; WO2009101500A1

Designated contracting state (EPC)

DE ES IT PL TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1716998 A2 20061102; **EP 1716998 A3 20071107**; **EP 1716998 B1 20110907**; CN 1853890 A 20061101; ES 2371769 T3 20120109; IT RE20050042 A1 20061027; PL 1716998 T3 20120229; RU 2006113028 A 20080527; RU 2441750 C2 20120210

DOCDB simple family (application)

EP 06075716 A 20060328; CN 200610075296 A 20060418; ES 06075716 T 20060328; IT RE20050042 A 20050426; PL 06075716 T 20060328; RU 2006113028 A 20060419