

Title (en)

Process for making a ceramic object and apparatus for pressing a ceramic blank

Title (de)

Verfahren zur Herstellung eines keramischen Formkörpers und Einrichtung zum Pressen eines keramischen Formlings

Title (fr)

Procédé pour la fabrication d'un objet en céramique et dispositif pour le pressage d'une ébauche en céramique

Publication

EP 0452936 B1 19971015 (DE)

Application

EP 91106242 A 19910418

Priority

DE 4012700 A 19900420

Abstract (en)

[origin: JPH05131419A] PURPOSE: To provide a method of manufacturing a formed ceramic product with exactitude in surface pattern and with mitigated contraction and deformation on firing, by pressing a preformed object to reduce its volume keeping similarity in form with liquid pressure given from outside of a covering film system. CONSTITUTION: A forming method of ceramics is comprised of a molding process to form preliminary product 81 in stable shape and subsequent firing process of the preliminary product 81 to form final product. In the molding process of the above method, the ceramic material is brought into contact with at least one substantially rigid surface to form a preliminary product in stable shape 81 similar to the final product. Then the preliminary product 81 wholly enveloped with a covering film system 88 is pressed with liquid pressure given from outside of the film system 88, without pressing against a rigid surface, to form a product to be fired, keeping similarity in shape and reducing volume.

IPC 1-7

B28B 3/00; **B28B 11/04**; **B28B 11/00**; **B28B 3/02**

IPC 8 full level

B28B 3/00 (2006.01); **B28B 3/02** (2006.01); **B28B 11/00** (2006.01); **B28B 11/04** (2006.01); **B28B 13/02** (2006.01); **B30B 11/00** (2006.01); **C04B 35/64** (2006.01)

CPC (source: EP US)

B28B 3/00 (2013.01 - EP US); **B28B 3/003** (2013.01 - EP US); **B28B 3/021** (2013.01 - EP US); **B28B 11/003** (2013.01 - EP US); **B28B 11/044** (2013.01 - EP US); **B28B 13/021** (2013.01 - EP US); **B30B 11/001** (2013.01 - EP US)

Cited by

DE102006026971A1; EP0689914A1; EP0674959A1; US5828942A

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0452936 A2 19911023; **EP 0452936 A3 19920415**; **EP 0452936 B1 19971015**; AT E159197 T1 19971115; DE 4012700 A1 19911031; DE 59108873 D1 19971120; ES 2111544 T3 19980316; JP H05131419 A 19930528; US 5314646 A 19940524

DOCDB simple family (application)

EP 91106242 A 19910418; AT 91106242 T 19910418; DE 4012700 A 19900420; DE 59108873 T 19910418; ES 91106242 T 19910418; JP 8823391 A 19910419; US 68816691 A 19910419