

Title (en)

METHOD FOR MAKING PRODUCT FROM WASTE GLASS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON PRODUKT AUS ALTGLAS

Title (fr)

PROCEDE DE FABRICATION DE PRODUITS A PARTIR DE DECHETS DE VERRE

Publication

**EP 1441999 A4 20050608 (EN)**

Application

**EP 01996149 A 20011108**

Priority

US 0146944 W 20011108

Abstract (en)

[origin: CA2464437A1] The invention provides a method to transform large quantities of waste glass into useful ceramic products by a low-cost manufacturing process. The major steps of the method consist of dry preparation of glass powder, granulation with a non-aqueous organic binder system, dry pressing with adequate green strength, and firing at low temperatures. Water and clay are not required in the processing, which eliminates problems that were encountered in the past. Only one firing step is needed with a low peak firing temperature of about 750 °C. The method conserves energy and natural resources compared to clay-based traditional ceramic manufacturing. High-quality impervious ceramic products with only a small amount of porosity can be produced by the invention.</SDOA B>

IPC 1-7

**C04B 33/32**; **C03C 1/02**; **C03C 10/00**; **C03B 19/06**

IPC 8 full level

**C04B 33/02** (2006.01); **C03B 19/06** (2006.01); **C03C 1/02** (2006.01); **C03C 10/00** (2006.01); **C04B 33/32** (2006.01); **C04B 33/34** (2006.01); **C04B 35/00** (2006.01); **C04B 41/86** (2006.01)

CPC (source: EP KR)

**C03B 19/06** (2013.01 - EP KR); **Y02P 40/57** (2015.11 - EP)

Citation (search report)

- [X] GB 822200 A 19591021 - GEN ELECTRIC CO LTD
- [X] WO 9916727 A1 19990408 - VORTEC CORP [US], et al
- See references of WO 03040056A1

Cited by

CN107840665A; CN107879749A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

CA 2464437 A1 20030515; CN 100469729 C 20090318; CN 1558879 A 20041229; EP 1441999 A1 20040804; EP 1441999 A4 20050608; JP 2005507851 A 20050324; KR 100853971 B1 20080825; KR 20040060968 A 20040706; MX PA04004346 A 20040811

DOCDB simple family (application)

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