

Title (en)

INJECTION MOLDING OF STRUCTURAL ZIRCONIA-BASED MATERIALS BY AN AQUEOUS PROCESS

Title (de)

SPRITZGIESSEN VON GEFORMTEN MATERIALIEN AUF BASIS VON ZIRCONIUMOXID MITTELS EINES WÄSSRIGEN VERFAHRENS

Title (fr)

MOULAGE PAR INJECTION DE MATERIAUX STRUCTURELS A BASE DE ZIRCONE PAR PROCEDE AQUEUX

Publication

**EP 1027305 A1 20000816 (EN)**

Application

**EP 98946881 A 19980908**

Priority

- US 9818663 W 19980908
- US 92924797 A 19970910

Abstract (en)

[origin: WO9912864A1] A molding compound is used to form net-shape or near net-shape articles consisting essentially of about 50 to 100 wt.% ZrO<sub>2</sub>(Y<sub>2</sub>O<sub>3</sub>) and 0 to about 50 wt.% Al<sub>2</sub>O<sub>3</sub>. The compound, containing ceramic powders having an average particle size less than 1  $\mu$ m, is mixed with a liquid carrier, a gel forming binder and processing additives and can be molded at relatively low pressures in a conventional injection molding machine.

IPC 1-7

**C04B 35/486**; C04B 35/624; C04B 35/622

IPC 8 full level

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CPC (source: EP KR)

**C04B 35/486** (2013.01 - EP KR); **C04B 35/4885** (2013.01 - EP); **C04B 35/636** (2013.01 - EP)

Citation (search report)

See references of WO 9912864A1

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