

Title (en)

METHOD AND DEVICE FOR PRESSURE SLIP CASTING

Title (de)

VERFAHREN UND VORRICHTUNG ZUM SCHLICKERGIESSEN UNTER DRUCKEINWIRKUNG

Title (fr)

PROCEDE ET DISPOSITIF DE COULEE EN BARBOTINE SOUS PRESSION

Publication

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Application

**EP 02747420 A 20020620**

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Abstract (en)

[origin: DE10130186A1] The invention relates to a method for pressure slip casting for producing ceramic products, especially hollow ceramic products, as well as to a device suitable for use in said method. The inventive method is characterized by filling slip in a mold cavity formed by a mold and subjecting it to an excess pressure to build the body of the ceramic product. Once the mold cavity is filled with slip, an inflatable hollow body element from non-porous yet flexible material is introduced into the slip and immersed. Said hollow body element is then inflated like a balloon by the effect of a fluid pressure exercised in the interior of the hollow body element, thereby subjecting the slip in the closed mold to pressure. The inventive device used for pressure slip casting for producing ceramic products, especially hollow ceramic products, is characterized by a hollow body element from non-porous yet flexible material that can be inflated like a balloon by the effect of a fluid pressure exercised in the interior thereof. Said hollow body element, in the fluid pressureless state, can be immersed in the mold cavity and the slip contained therein, and it can be removed in a deflated state of the hollow body element once the body of the ceramic product is formed.

IPC 8 full level

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Cited by

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