

Title (en)
METHOD OF FORMING A CERAMIC MOLD

Title (de)
VERFAHREN ZUR HERSTELLUNG VON KERAMIKFORMEN

Title (fr)
PROCEDE POUR FORMER DES MOULES CERAMIQUE

Publication
EP 1037723 B1 20030326 (EN)

Application
EP 98954659 A 19981127

Priority
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Abstract (en)
[origin: WO9929451A1] A method for forming a ceramic mold comprises the step of placing a pattern (1) having critical pattern surfaces (13) in a flask (3) having an open end. The critical pattern surfaces face upward toward the open end. Successive steps include adding a heat reversible liquid metal (5) to the flask (3) to cover the critical pattern surfaces, and cooling the liquid metal to form a solid metal mold. The metal mold (7) has critical metal mold (7) surfaces inverse to the critical pattern surfaces (10). Further steps include removing the pattern from the metal mold (7), casting a ceramic mold (11) around the metal mold, and liquifying the metal mold to remove it from the ceramic mold (11). The ceramic mold (11) has critical ceramic surfaces (10) inverse to the critical metal mold surfaces, thereby accurately replicating the critical pattern surfaces.

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