

Title (en)

Ceramic shell mold for investment casting and method of making the same.

Title (de)

Formschale für Feinguss und Verfahren zur Herstellung derselben.

Title (fr)

Moule-carapace céramique pour le moulage de précision et procédé pour la fabrication de celui-ci.

Publication

EP 0347344 B1 19940608 (EN)

Application

EP 89420208 A 19890612

Priority

US 20573188 A 19880613

Abstract (en)

[origin: EP0347344A2] A ceramic shell mold and method of making the same. The ceramic shell mold includes a facecoat layer comprised of a first ceramic material. A plurality of alternating layers are formed overlaying the facecoat layer. The alternating layers are comprised of a second ceramic material and a third ceramic material, the third ceramic material having thermophysical properties different than the second ceramic material. The second ceramic material and the third ceramic material are preferably a zircon-based material and an alumina-based material, respectively. The resultant ceramic shell mold has a greater high temperature creep resistance than a shell mold formed solely from the second ceramic material or solely from the third ceramic material.

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IPC 8 full level

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