

Title (en)
CERAMIC SHELL MOLD FOR INVESTMENT CASTING AND METHOD OF MAKING THE SAME

Publication
EP 0347344 A3 19910227 (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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CPC (source: EP)
B22C 9/061 (2013.01)

Citation (search report)
• [Y] DE 3015639 A1 19801106 - UNITED TECHNOLOGIES CORP
• [Y] US 4040845 A 19770809 - RICHESON DAVID W, et al
• [A] DE 2716342 A1 19771103 - UNITED TECHNOLOGIES CORP

Cited by
EP0789109A1; GB2253400A; AU611375B2

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EP 0347344 A2 19891220; **EP 0347344 A3 19910227**; **EP 0347344 B1 19940608**; DE 68915861 D1 19940714; DE 68915861 T2 19950119; JP H02112848 A 19900425; JP H0675744 B2 19940928

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