

Title (en)

Ceramic casting mould part with various shrinking factors and casting methods

Title (de)

Keramisches Gussformteil mit verschiedenen Schrumpffaktoren und Gußverfahren

Title (fr)

Pièce de formage coulée en céramique dotée de différents facteurs de rétrécissement et procédé de coulée

Publication

EP 2463043 A1 20120613 (DE)

Application

EP 10194151 A 20101208

Priority

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Abstract (en)

The ceramic mold part (4) comprises two regions (7', 10'), and a cast shell, where a low-shrinkage region comprises a different material than the other region. The regions belong to a same layer when the layered mold part is formed. A mold core (19) corresponds with the regions. The matrix material of the low-shrinkage region comprises fibers, and corresponds to the matrix material of the other region. The mold part comprises a longitudinal direction (13') such as a solidification direction of a melt in a casting mold with the mold part, and the fibers run in the longitudinal direction. An independent claim is included for a method of producing a cast component.

Abstract (de)

Durch die Verwendung eines Materials mit unterschiedlichem Schrumpfverhalten, insbesondere durch Fasern (16), kann kontrolliert die Schrumpfung eines keramischen Gussformteils (4) eingestellt werden.

IPC 8 full level

B22C 9/02 (2006.01); **B22C 9/04** (2006.01); **B22C 9/10** (2006.01); **B22C 9/24** (2006.01)

CPC (source: EP)

B22C 9/02 (2013.01); **B22C 9/04** (2013.01); **B22C 9/103** (2013.01); **B22C 9/106** (2013.01); **B22C 9/24** (2013.01)

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