

Title (en)
Method and apparatus for casting a hollow component of a turbomachine

Title (de)
Verfahren und Vorrichtung zum Gießen von Hohlkomponenten einer Turbomaschine

Title (fr)
Procédé et appareil de moulage d'un composant creux d'une turbomachine

Publication
EP 2460604 A1 20120606 (EN)

Application
EP 10193284 A 20101201

Priority
EP 10193284 A 20101201

Abstract (en)
An apparatus (1) for casting a hollow component of a turbomachine from a melted material is provided. The apparatus includes a core (2), a shell (3) surrounding the core (2) forming a cavity (6) therebetween for receiving the melted material, wherein a boundary (7) of the cavity (6) is defined by the core (2) and the shell (3), a plurality of separator elements (4, 10, 15, 18) for separating the core (2) and the shell (3) having a spherical portion (12, 16, 17, 19), wherein the boundary (7) includes indentations (5) to receive the spherical portion (12, 16, 17, 19) of the separator elements (4, 10, 15, 18).

IPC 8 full level
B22C 21/14 (2006.01)

CPC (source: EP)
B22C 21/14 (2013.01)

Citation (applicant)
US 7036556 B2 20060502 - CAPUTO MICHAEL F [US], et al

Citation (search report)
• [XAYI] JP H0484646 A 19920317 - MITSUBISHI MATERIALS CORP
• [Y] FR 1222685 A 19600613 - FONDERIE SOC GEN DE
• [Y] WO 9937421 A1 19990729 - SIEMENS AG [DE], et al
• [Y] US 2002148589 A1 20021017 - MERTINS MICHAEL WAYNE [US]
• [Y] FR 2874186 A1 20060217 - SNECMA MOTEURS SA [FR]

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US2023249245A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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