

Title (en)
High temperature die casting apparatus and method therefor

Title (de)
Hochtemperatur-Druckgießvorrichtung und Verfahren dafür

Title (fr)
Appareil decoulée sous pression à haute température et son procédé

Publication
EP 2450127 A3 20160713 (EN)

Application
EP 11187817 A 20111104

Priority
US 94036210 A 20101105

Abstract (en)
[origin: EP2450127A2] A high temperature die casting system (10) includes a die casting tool (12) that has dies (14,16) that are adapted for forming a component (15). The die casting tool (12) is operable to heat and maintain a temperature of the dies (14,16) above 500°F (260°C). At least a portion of the die casting tool (12) that is exposed for contact with molten die casting material has a substrate (42) and barrier coating (40) on the substrate (42) to protect from the molten die casting material.

IPC 8 full level
B22D 17/22 (2006.01)

CPC (source: EP US)
B22D 17/2209 (2013.01 - EP US)

Citation (search report)

- [XY] US 2002062941 A1 20020530 - COWIE JOHN G [US], et al
- [X] DE 102007046410 A1 20090402 - VOLKSWAGEN AG [DE]
- [Y] WO 0056481 A1 20000928 - CAST CENTRE PTY LTD [AU], et al
- [Y] US 2005016706 A1 20050127 - RAY RANJAN [US], et al
- [Y] GB 2171039 A 19860820 - ONTARIO RESEARCH FOUNDATION

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

DOCDB simple family (publication)
EP 2450127 A2 20120509; EP 2450127 A3 20160713; EP 2450127 B1 20191009; SG 180159 A1 20120530; US 2012111525 A1 20120510

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EP 11187817 A 20111104; SG 2011081510 A 20111104; US 94036210 A 20101105