

Title (en)

Die casting of component having integral seal

Title (de)

Druckguss einer Komponente mit integrierter Dichtung

Title (fr)

Moulage d'un composant doté d'un joint intégral

Publication

EP 2450130 A3 20160120 (EN)

Application

EP 11187956 A 20111104

Priority

US 94008710 A 20101105

Abstract (en)

[origin: EP2450130A2] A method of die casting a component (29) having an integral seal (33) includes defining a first portion (80) of a die cavity (158) of a die (150) to include an open cell structure (85). A second portion (82) of the die (150) is defined without the open cell structure (85). Molten metal (M) is injected into the die cavity (158), and the molten metal (M) is solidified within the die cavity (158) to form the component (29) having the integral seal (33).

IPC 8 full level

B22D 17/24 (2006.01); **B22D 19/00** (2006.01); **F01D 11/12** (2006.01)

CPC (source: EP US)

B22D 17/005 (2013.01 - US); **B22D 17/20** (2013.01 - US); **B22D 17/24** (2013.01 - EP US); **B22D 19/00** (2013.01 - EP US); **B22D 27/15** (2013.01 - EP US); **F01D 11/122** (2013.01 - EP US); **F05D 2230/21** (2013.01 - EP US)

Citation (search report)

- [X] US 6648055 B1 20031118 - HAUG TILMAN [DE], et al
- [I] EP 1146204 A2 20011017 - ROLLS ROYCE PLC [GB]
- [X] DE 102006004090 A1 20070802 - MTU AERO ENGINES GMBH [DE]

Cited by

CN112108623A

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 2450130 A2 20120509; **EP 2450130 A3 20160120**; **EP 2450130 B1 20190911**; SG 180154 A1 20120530; US 2012111521 A1 20120510; US 2016074933 A1 20160317

DOCDB simple family (application)

EP 11187956 A 20111104; SG 2011081445 A 20111104; US 201514937988 A 20151111; US 94008710 A 20101105