

Title (en)

METHOD FOR PRODUCING A COOLED RING CARRIER

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES GEKÜHLTEN RINGTRÄGERS

Title (fr)

PROCEDE DE PRODUCTION D'UN SUPPORT ANNULAIRE REFROIDI

Publication

**EP 1515816 A1 20050323 (DE)**

Application

**EP 03760565 A 20030618**

Priority

- DE 0302047 W 20030618
- DE 10228256 A 20020625
- DE 10325916 A 20030607

Abstract (en)

[origin: WO2004000489A1] The invention relates to a method for producing a cooled ring carrier (1) for an aluminium piston pertaining to an internal combustion engine and produced according to a casting method, comprising a cooling channel (6) which is embodied on the rear (3) of the ring carrier as a downwardly open turned groove (4). According to the invention, salt granules are pressed into the turned groove (4) at a pressure of between 100 and 300 N/mm<sup>2</sup>, in such a way that a salt core (5) is formed in the turned groove (4). The composite consisting of the ring carrier and the salt core is then immersed in an alfin bath.

IPC 1-7

**B22D 19/00**; **F02F 3/00**; **B22C 9/10**

IPC 8 full level

**B22C 9/10** (2006.01); **B22C 9/24** (2006.01); **B22D 19/00** (2006.01); **B22D 19/08** (2006.01); **F02F 3/00** (2006.01); **F02F 3/20** (2006.01)

CPC (source: EP KR US)

**B22C 9/105** (2013.01 - EP KR US); **B22D 19/0027** (2013.01 - EP KR US); **F02F 3/003** (2013.01 - EP KR US); **F02F 3/20** (2013.01 - EP KR US); **F02F 3/22** (2013.01 - EP KR US); **Y10T 29/49281** (2015.01 - EP US)

Citation (search report)

See references of WO 2004000489A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**WO 2004000489 A1 20031231**; BR 0312038 A 20050329; BR 0312038 B1 20101214; DE 50301437 D1 20060302; EP 1515816 A1 20050323; EP 1515816 B1 20051019; JP 2005535833 A 20051124; JP 4169740 B2 20081022; KR 101004883 B1 20101228; KR 20050063753 A 20050628; US 2006151573 A1 20060713; US 7356925 B2 20080415

DOCDB simple family (application)

**DE 0302047 W 20030618**; BR 0312038 A 20030618; DE 50301437 T 20030618; EP 03760565 A 20030618; JP 2004530891 A 20030618; KR 20047021058 A 20030618; US 51927104 A 20041227