

Title (en)

PARTICULAR ARRANGEMENT OF A COOLING DUCT CONNECTING BORE OF A COOLING DUCT

Title (de)

BESONDERE ANORDNUNG EINER KÜHLKANALVERBINDUNGSBOHRUNG EINES KÜHLKANALES

Title (fr)

AGENCEMENT SPÉCIAL D'UN ALÉSAGE DE RACCORDEMENT D'UN CANAL DE REFROIDISSEMENT

Publication

EP 2867509 A1 20150506 (DE)

Application

EP 13731137 A 20130624

Priority

- DE 102012211037 A 20120627
- DE 102012218963 A 20121018
- EP 2013063141 W 20130624

Abstract (en)

[origin: WO2014001256A1] The invention relates to a method for producing a cooling duct piston (1) for an internal combustion engine, having the following steps of: producing a top piston part (6) by introducing a combustion bowl, a cooling space (4) of a part of a cooling duct (2) and also overflow ducts (5), producing a bottom piston part (7) by introducing a part of a cooling duct, and joining the piston parts, wherein at least one transfer duct is created by bores. Also claimed is a cooling duct piston produced by the method according to the invention.

IPC 8 full level

F02F 3/00 (2006.01); **F02F 3/22** (2006.01)

CPC (source: CN EP US)

F02F 3/0015 (2013.01 - CN EP US); **F02F 3/22** (2013.01 - CN EP US); **B23P 15/10** (2013.01 - US); **F02F 3/16** (2013.01 - US); **F02F 3/28** (2013.01 - US); **F02F 2003/0061** (2013.01 - CN EP US); **Y10T 29/49274** (2015.01 - EP US)

Citation (search report)

See references of WO 2014001256A1

Citation (examination)

DE 102009056917 A1 20110609 - MAHLE INT GMBH [DE]

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)

DE 102013211953 A1 20140102; CN 104603436 A 20150506; EP 2867509 A1 20150506; US 10221807 B2 20190305; US 2015159584 A1 20150611; WO 2014001256 A1 20140103

DOCDB simple family (application)

DE 102013211953 A 20130624; CN 201380031706 A 20130624; EP 13731137 A 20130624; EP 2013063141 W 20130624; US 201314411401 A 20130624