Title (en)
PISTON FOR AN INTERNAL COMBUSTION ENGINE AND METHOD OF PRODUCING IT

Title (de)
KOLBEN FÜR EINEN VERBRENNUNGSMOTOR UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
PISTON POUR MOTEUR A COMBUSTION INTERNE ET PROCEDE DE FABRICATION DUDIT PISTON

Publication
EP 1963655 A1 20080903 (DE)

Application
EP 06828686 A 20061215

Priority
• DE 2006002255 W 20061215
• DE 102005061075 A 20051221

Abstract (en)
[origin: DE102005061075A1] The piston (1) has an annular section on a radial outer surface close to the bottom of the piston, a shaft following the annular section in the direction away from the bottom, two opposing bolt hubs (7) with hub bores (8) held by the shaft, an annular cooling channel (9) for cooling the annular section connected to the piston's interior via an oil supply channel and an oil outlet channel and at least one hub cooling channel (13). Hub cooling channels arranged in the bolt hub regions close to the bottom of the piston are each connected to the cooling channel. An independent claim is also included for a method of manufacturing an inventive device.

IPC 8 full level
B22C 9/10 (2006.01); **B22D 15/02** (2006.01); **F02F 3/22** (2006.01)

CPC (source: EP KR US)
B22C 9/10 (2013.01 - KR); **B22C 9/105** (2013.01 - EP US); **B22D 15/02** (2013.01 - KR); **B22D 19/0009** (2013.01 - EP US); **B22D 19/0027** (2013.01 - EP US); **B22D 21/007** (2013.01 - EP US); **B22D 29/002** (2013.01 - EP US); **F02F 3/22** (2013.01 - EP KR US); F02F 2200/06 (2013.01 - EP US); Y10T 29/49249 (2015.01 - EP US); Y10T 29/49252 (2015.01 - EP US); Y10T 29/49274 (2015.01 - EP US)

Citation (search report)
See references of WO 2007073719A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
DE 102005061075 A1 20070628; BR PI0620283 A2 20111108; CN 101331309 A 20081224; CN 101331309 B 20101208; EP 1963655 A1 20080903; JP 2009520901 A 20090528; KR 20080080546 A 20080904; US 2009025550 A1 20090129; US 7921555 B2 20110412; WO 2007073719 A1 20070705

DOCDB simple family (application)
DE 102005061075 A 20051221; BR PI0620283 A 20061215; CN 200680047351 A 20061215; DE 2006002255 W 20061215; EP 06828686 A 20061215; JP 2008546114 A 20061215; KR 20087014506 A 20080616; US 8684106 A 20061215