

Title (en)

MOLD CORE ARRANGEMENT FOR PRODUCING A CYLINDER CRANKCASE WITH A SEPARATE WATER COOLING AREA

Title (de)

FORMKERNANORDNUNG ZUR HERSTELLUNG EINES ZYLINDERKURBELGEHÄUSES MIT GETRENNTEN WASSERKÜHLUNGSBEREICH

Title (fr)

SYSTEME DE NOYAU POUR PRODUIRE UN CARTER DE VILEBREQUIN DE CYLINDRE A ZONE DE REFROIDISSEMENT PAR EAU SEPARÉE

Publication

EP 1578549 B1 20080514 (DE)

Application

EP 03769281 A 20030917

Priority

- DE 10245956 A 20021002
- EP 0310310 W 20030917

Abstract (en)

[origin: WO2004033128A2] The invention relates to a mold core arrangement for producing a cylinder crankcase for a piston engine having cylinders arranged in a row, which has a separate water cooling jacket. The mold core arrangement comprises a bottom core (5) that is joined with material fit to the cylinder cores (1, 2, 3, 4) while forming one piece, and comprises two separate concave water cooling jacket partial cores (6.1, 6.2), which laterally overlap the row of cylinder cores (1, 2, 3, 4) at a distance on the longitudinal sides, are joined to the bottom core (5), and which are joined to one another at both interspaced faces via at least one metal joining element (8) that, with its free ends (8.1, 8.2), is embedded in the core molding material of both water cooling jacket partial cores (6.1, 6.2) while being located at a distance from the bottom core (5).

IPC 8 full level

B22C 9/10 (2006.01); **B22C 21/14** (2006.01)

CPC (source: EP)

B22C 9/103 (2013.01); **B22C 21/14** (2013.01)

Cited by

CN106862494A; CN106270399A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004033128 A2 20040422; WO 2004033128 A3 20050909; AT E395154 T1 20080515; AU 2003277864 A1 20040504; AU 2003277864 A8 20040504; BR 0314859 A 20050802; DE 10245956 A1 20040415; DE 50309857 D1 20080626; EP 1578549 A2 20050928; EP 1578549 A3 20051102; EP 1578549 B1 20080514; ES 2305523 T3 20081101

DOCDB simple family (application)

EP 0310310 W 20030917; AT 03769281 T 20030917; AU 2003277864 A 20030917; BR 0314859 A 20030917; DE 10245956 A 20021002; DE 50309857 T 20030917; EP 03769281 A 20030917; ES 03769281 T 20030917