

Title (en)

Liquid cooled multicylinder internal combustion engine with a releasable cylinder head

Title (de)

Flüssigkeitsgekühlte, mehrzylindrige Brennkraftmaschine mit am Zylinder-Kurbelgehäuse lösbar angeordnetem Zylinderkopf

Title (fr)

Moteur multicylindre à combustion interne refroidi par un liquide avec une culasse détachable

Publication

EP 1052394 B1 20040721 (DE)

Application

EP 00108214 A 20000414

Priority

DE 19922342 A 19990514

Abstract (en)

[origin: EP1052394A2] The crankcase (2) of a water-cooled and multiple-cylinder internal combustion motor has a coolant chamber (5) divided into t zones (5',5). The crankcase (2) has a guide system (10,15,5',5) to carry the coolant flowing from the cylinder head (3) to a ris channel (11) integrated into the cylinder head (3). The coolant chamber sections (8-8') of the coolant chamber (4) at the cylind head (3) are linked at their uppermost points by a bleed channel (12). The rising channel (11) is linked to the outer channel connection (13) to open at the highest geodesic point (14).

IPC 1-7

F02F 1/40; F02F 1/10; F02B 75/20

IPC 8 full level

F02B 75/20 (2006.01); **F02F 1/10** (2006.01); **F02F 1/40** (2006.01); **F02B 75/18** (2006.01)

CPC (source: EP)

F02B 75/20 (2013.01); **F02F 1/108** (2013.01); **F02F 1/40** (2013.01); **F02B 2075/1816** (2013.01)

Cited by

EP2392813A1; FR2960916A1; EP1522709A3; AT514793A1; AT514793B1; EP3379063A1; CH713618A1; US7845316B2; US7930999B2; WO2009007143A1; WO2010031423A1; US10662857B2; US11248514B2; DE102020114716A1; WO2021244809A1; US11939893B2

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