

Title (en)

COOLING-OPTIMISED CYLINDER HEAD AND OPTIMISED CYLINDER HEAD COOLING METHOD

Title (de)

KÜHLUNGSOPTIMIERTER ZYLINDERKOPF UND OPTIMIERTES ZYLINDERKOPFKÜHLVERFAHREN

Title (fr)

CULASSE DE CYLINDRE À REFROIDISSEMENT OPTIMISÉ ET PROCÉDÉ DE REFROIDISSEMENT DE CULASSE OPTIMISÉ

Publication

**EP 4022181 A1 20220706 (DE)**

Application

**EP 20764046 A 20200824**

Priority

- DE 102019006034 A 20190827
- EP 2020073605 W 20200824

Abstract (en)

[origin: WO2021037783A1] The invention relates, inter alia, to a cylinder head (10). A first, a second and a third coolant channel (46, 48, 50) are situated downstream of a coolant inlet (28), and coolant can flow through them in parallel from the coolant inlet (28). A coolant chamber (62) is formed for cooling a receptacle (26) and is situated downstream of the first, second and third coolant channels (46, 48, 50). An upper coolant jacket (38) is situated downstream of the coolant chamber (62).

IPC 8 full level

**F02F 1/24** (2006.01); **F01P 3/16** (2006.01); **F02F 1/38** (2006.01); **F02F 1/40** (2006.01); **F02M 61/14** (2006.01); **H01T 13/08** (2006.01)

CPC (source: CN EP)

**F01P 3/16** (2013.01 - CN EP); **F02F 1/242** (2013.01 - CN EP); **F02F 1/38** (2013.01 - CN EP); **F02F 1/40** (2013.01 - CN EP); **F02M 61/14** (2013.01 - CN EP); **F01P 2003/024** (2013.01 - CN EP); **F01P 2003/028** (2013.01 - CN EP); **F02M 2200/858** (2013.01 - CN EP)

Citation (search report)

See references of WO 2021037783A1

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)

**WO 2021037783 A1 20210304**; BR 112021022620 A2 20220104; CN 114174659 A 20220311; DE 102019006034 A1 20210304; EP 4022181 A1 20220706

DOCDB simple family (application)

**EP 2020073605 W 20200824**; BR 112021022620 A 20200824; CN 202080055489 A 20200824; DE 102019006034 A 20190827; EP 20764046 A 20200824