

Title (en)
CYLINDER HEAD FOR A WATER-COOLED INTERNAL-COMBUSTION ENGINE

Publication
EP 0244735 B1 19901114 (DE)

Application
EP 87106132 A 19870428

Priority
DE 3615642 A 19860509

Abstract (en)
[origin: EP0244735A2] The cooling jacket (5) on a cylinder head (3) for a water-cooled in-line internal combustion engine (1) contains a pipeline (18), which, without any covering, projects from a coolant outlet aperture (23) for the connection of a heating device (20) originating in the cooling jacket (5), and has a cylindrical, smoothly cut form and an inlet aperture (22) in the cooling jacket (5) at a distance from the outlet aperture (23) together with an external hose connection for a heating supply line (19).

IPC 1-7
F01P 3/02; F01P 3/20; F02F 1/38; F02F 1/40

IPC 8 full level
F01P 3/02 (2006.01); **F01P 3/20** (2006.01); **F02F 1/38** (2006.01); **F02F 1/40** (2006.01); **F02F 1/42** (2006.01); **F02B 3/06** (2006.01); **F02F 1/24** (2006.01)

CPC (source: EP)
F01P 3/02 (2013.01); **F01P 3/20** (2013.01); **F02F 1/40** (2013.01); **F02F 1/4214** (2013.01); **F02B 3/06** (2013.01); **F02F 2001/245** (2013.01)

Cited by
FR2886341A1; FR2857412A1; DE102010016099A1; DE102010016099B4

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DE ES FR GB IT SE

DOCDB simple family (publication)
DE 3615642 C1 19870730; DE 3766150 D1 19901220; EP 0244735 A2 19871111; EP 0244735 A3 19881228; EP 0244735 B1 19901114; ES 2019076 B3 19910601

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