

Title (en)

Cooling assembly for a cylinder of an internal combustion engine

Title (de)

Kühlanordnung für einen Zylinder einer Brennkraftmaschine

Title (fr)

Ensemble de refroidissement pour un cylindre d'un moteur à combustion interne

Publication

EP 3051110 A1 20160803 (EN)

Application

EP 15153123 A 20150129

Priority

EP 15153123 A 20150129

Abstract (en)

The present disclosure relates to a cooling assembly (100) for a cylinder of an internal combustion engine comprising a cylinder liner (40) and a cooling jacket (42). The cylinder liner (40) comprises a circumferential groove (50) formed in an upper part of an outer surface (41) of the cylinder liner (40). A circumferentially extending guiding surface (46) is formed in the outer surface (41) of the cylinder liner (40) and merges with a lower end (51) or an upper end (55) of the groove (50). The cooling jacket (42) is disposed around the cylinder liner (40) and includes a guiding portion (62) facing the guiding surface (46). A tear-off edge (54) is formed in cooling jacket (42) adjacent to the lower end (51) or the upper end (55) of the groove (50). In this manner, a ring-shaped nozzle (53) for the coolant entering the groove (50) is formed, and a turbulent flow of coolant is produced that enters the groove (50) to efficiently cool the cylinder liner (40).

IPC 8 full level

F02F 1/00 (2006.01); **F02F 1/16** (2006.01)

CPC (source: EP)

F02F 1/004 (2013.01); **F02F 1/163** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

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