

Title (en)

AIR-COOLED INTERNAL COMBUSTION ENGINE

Title (de)

LUFTGEKÜHLTER VERBRENNUNGSMOTOR

Title (fr)

MOTEUR À COMBUSTION INTERNE REFROIDI PAR AIR

Publication

EP 3499000 A4 20190724 (EN)

Application

EP 17839373 A 20170804

Priority

- JP 2016157187 A 20160810
- JP 2017028438 W 20170804

Abstract (en)

[origin: EP3499000A1] Provided is an air-cooled internal combustion engine capable of thoroughly cooling a cylinder block and a cylinder head and capable of particularly efficiently cooling an extension portion of an exhaust pipe extending from the cylinder head where heat generation is intense. In the air-cooled internal combustion engine, a centrifugal cooling fan 56 is secured to one end of a crankshaft 21, and a cylinder block 23 and a cylinder head 24 are surrounded by a shroud 70. In the internal combustion engine, an exhaust-side cylinder side surface 23D of the cylinder block 23 is formed with a plurality of air-guiding cooling fins 82 arranged in parallel, with air-guiding grooves 83 formed between adjacent ones of the air-guiding cooling fins 82, the air-guiding grooves 83 each have a structure in which an inlet port 83i is opened in the direction toward a fan-side side edge 23Dr of the exhaust-side cylinder side surface 23D, while an outlet port 83e is opened in the direction toward the exhaust-side head side surface 24D, and each of the air-guiding grooves 83 communicates from the inlet port 83i to the outlet port 83e.

IPC 8 full level

F01P 1/02 (2006.01); **F01P 5/06** (2006.01); **F02F 1/00** (2006.01); **F02F 1/06** (2006.01)

CPC (source: EP)

F01P 1/02 (2013.01); **F01P 5/06** (2013.01); **F02F 1/065** (2013.01)

Citation (search report)

- [Y] JP H07253019 A 19951003 - HONDA MOTOR CO LTD
- [Y] JP S5699034 U 19810805
- See references of WO 2018030302A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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