

Title (en)
AIR-COOLED INTERNAL COMBUSTION ENGINE

Title (de)
LUFTGEKÜHLTER VERBRENNUNGSMOTOR

Title (fr)
MOTEUR À COMBUSTION INTERNE REFROIDI PAR AIR

Publication
EP 3499000 A1 20190619 (EN)

Application
EP 17839373 A 20170804

Priority
• JP 2016157187 A 20160810
• JP 2017028438 W 20170804

Abstract (en)
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.

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