

Title (en)

ASSEMBLED LIQUID-COOLED PISTON FOR INTERNAL COMBUSTION ENGINES

Publication

EP 0150542 A3 19850814 (DE)

Application

EP 84201953 A 19841228

Priority

DE 3403624 A 19840202

Abstract (en)

[origin: US4587932A] A composite piston for internal combustion engines has an interior cooling chamber and an outer cooling passage. An annular rib protrudes from the inside surface of the upper part and that surface of the lower part which faces that annular rib. An annular flange is clamped between said rib and said surface of the lower part. A tongue which protrudes into the cooling passage is provided on that edge of said flange which faces the cooling passage. In order to minimize the temperature of that surface of the cooling passage which is near the combustion chamber and to maintain at least adjacent to the uppermost ring groove a temperature which is sufficient to prevent a wet corrosion of the piston and of the piston rings, the tongue defines a relatively narrow annular gap with that surface of the cooling passage which is near the combustion chamber so that the coolant oil is throttled as it flows through that gap.

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F02F 3/22; F02F 3/00

IPC 8 full level

F02F 3/00 (2006.01); F02F 3/22 (2006.01)

CPC (source: EP US)

F02F 3/0023 (2013.01 - EP US); F02F 3/22 (2013.01 - EP US); F05C 2201/021 (2013.01 - EP US); F05C 2201/0448 (2013.01 - EP US)

Citation (search report)

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- [A] DE 1476433 A1 19690626 - DIESELMOTORENWERK VEB
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- [A] DE 2151869 A1 19720427 - BURMEISTER & WAINS MOT MASK

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Designated contracting state (EPC)

CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 0150542 A2 19850807; EP 0150542 A3 19850814; DE 3403624 A1 19850808; DK 48485 A 19850803; DK 48485 D0 19850201;
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