

Title (en)

Engine piston with cooling chamber having a non-stick coating

Title (de)

Kolben für Brennkraftmaschinen mit einem Kühlraum mit Antihafbeschichtung

Title (fr)

Piston de moteur à combustion interne pourvu d'un chambre de refroidissement avec un revêtement anti-adhésif

Publication

**EP 2096290 A1 20090902 (EN)**

Application

**EP 08003822 A 20080229**

Priority

EP 08003822 A 20080229

Abstract (en)

The present disclosure refers to a piston (5) for an internal combustion engine. The piston (5) comprises at least one cooling chamber (30) preferably configured to generate a shaker cooling effect by partially filling of the cooling chamber (30) with a fluid, e.g., a coolant such oil, during use of the piston (5). The cooling chamber (30) has an inner surface (35) that is at least partly provided with a non-stick coating (50), preferably selected to inhibit or at least reduce contaminate accumulation or deposit during engine operation. The disclosure also refers to a method for manufacturing a piston (5) configured to be used in an internal combustion engine.

IPC 8 full level

**F02F 3/14** (2006.01); **F02F 3/22** (2006.01)

CPC (source: EP)

**F02F 3/14** (2013.01); **F02F 3/22** (2013.01); **F05C 2253/12** (2013.01)

Citation (applicant)

- US 6513477 B1 20030204 - GAISER RANDALL R [US], et al
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Citation (search report)

- [XY] US 2007113802 A1 20070524 - MIHARA KENJI [JP]
- [X] JP S57179354 A 19821104 - MITSUBISHI HEAVY IND LTD
- [YD] US 6513477 B1 20030204 - GAISER RANDALL R [US], et al

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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