

Title (en)

OIL INLET FOR AN INTERNAL COMBUSTION ENGINE PISTON THAT IS PROVIDED WITH A COOLING DUCT

Title (de)

ÖLEINLASS FÜR EINEN MIT KÜHLKANAL VERSEHENEN KOLBEN EINES VERBRENNUNGSMOTORS

Title (fr)

ENTREE D'HUILE DESTINEE A UN PISTON D'UN MOTEUR A COMBUSTION INTERNE, POURVU D'UN CANAL DE REFROIDISSEMENT

Publication

EP 1490589 B1 20080402 (DE)

Application

EP 03745747 A 20030402

Priority

- DE 0301076 W 20030402
- DE 10214830 A 20020404

Abstract (en)

[origin: WO03085251A1] An oil inlet (2) for a piston (1) provided with a cooling duct (4) and installed in an internal combustion engine is designed in order to enable an improved concentration of a cooling oil stream when entering the oil inlet and an improved distribution when exiting into the cooling duct. To this end, the inner wall surface (3) of the oil inlet (2) is shaped according to a function of a one-sheeted rotating hyperboloid or of a surface-delimited torus, whereby the shape is determined according to a stream position of the cooling oil stream (7), which is produced by an oil spraying nozzle (6), relative to the cross sectional opening area (B, D) of the oil inlet.

IPC 8 full level

F01M 1/08 (2006.01); **F02F 3/22** (2006.01); **F01P 3/08** (2006.01)

CPC (source: EP KR US)

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WO 03085251 A1 20031016; DE 10214830 A1 20040108; DE 50309534 D1 20080515; EP 1490589 A1 20041229; EP 1490589 B1 20080402; JP 2005521833 A 20050721; KR 20040101387 A 20041202; US 2005115523 A1 20050602; US 7051684 B2 20060530

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