

Title (en)
Piston for an internal combustion engine

Title (de)
Kolben, insbesondere für eine Brennkraftmaschine

Title (fr)
Piston pour un moteur à combustion interne

Publication
EP 1231374 A3 20030521 (DE)

Application
EP 01130054 A 20011218

Priority
DE 10106435 A 20010213

Abstract (en)
[origin: EP1231374A2] Piston (1) comprises a piston head (2), a piston shaft (3) having a pair of piston pin hubs (4, 5) and set back in the region of the piston pin hubs so that the piston head protrudes in a radial direction over the piston shaft in the region of the piston pin hubs, an inner piston chamber defined by the piston shaft and the piston head and having an oil-guiding wall forming an oil jet impact zone (10), and at least one through channel (16, 17, 22) leading outward from the inner piston chamber so that oil flowing through the through channel flows against the piston head in its region protruding over the piston shaft. Preferred Features: The oil-guiding wall changes into the inner wall of the through channel.

IPC 1-7
F02F 3/22

IPC 8 full level
F02F 3/22 (2006.01); **F01P 3/08** (2006.01)

CPC (source: EP)
F02F 3/22 (2013.01); **F01P 3/08** (2013.01); **F02F 2200/04** (2013.01); **F02F 2200/06** (2013.01)

Citation (search report)

- [XA] WO 0102713 A1 20010111 - FEDERAL MOGUL NUERNBERG GMBH [DE], et al
- [X] US 5845611 A 19981208 - SCHMIDT ERWIN [DE], et al
- [X] GB 586746 A 19470328 - SPECIALLOID LTD, et al
- [X] WO 9748896 A1 19971224 - METAL LEVE SA [BR], et al
- [AD] DE 19747746 C1 19981119 - ALCAN GMBH [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 146 (M - 307) 7 July 1984 (1984-07-07)

Cited by
US2017241374A1; CN103174539A; DE10255892A1; CN109154252A; US10428761B2; US10227948B2; USD886155S; WO2017147097A1; WO2006027157A1; US7748361B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1231374 A2 20020814; EP 1231374 A3 20030521; EP 1231374 B1 20080305; AT E388316 T1 20080315; DE 10106435 A1 20020814; DE 50113694 D1 20080417; ES 2298187 T3 20080516

DOCDB simple family (application)
EP 01130054 A 20011218; AT 01130054 T 20011218; DE 10106435 A 20010213; DE 50113694 T 20011218; ES 01130054 T 20011218