

Title (en)

PISTON WITH COOLING CHANNEL

Title (de)

TAUCHKOLBEN MIT KÜHLKANAL

Title (fr)

PISTON PLONGEUR A CANAL DE REFROIDISSEMENT

Publication

EP 0870103 A1 19981014 (DE)

Application

EP 96945881 A 19961112

Priority

- DE 9602172 W 19961112
- DE 19548811 A 19951227

Abstract (en)

[origin: DE19548811A1] The invention concerns a light-metal piston which has a sheet-metal cooling channel integrally cast in the piston head. In order to improve the heat transfer between the piston material and the cooling channel and to reduce the manufacturing costs of the cooling channel, the channel has a narrow slit, which allows oil to pass, extending along at least part of the channel wall.

IPC 1-7

F02F 3/22; **B22D 19/00**

IPC 8 full level

B22D 19/00 (2006.01); **B22D 19/08** (2006.01); **F01P 3/10** (2006.01); **F02F 3/22** (2006.01); **F16J 1/09** (2006.01)

CPC (source: EP US)

B22D 19/0027 (2013.01 - EP US); **F02F 3/22** (2013.01 - EP US); **F02F 3/10** (2013.01 - EP US); **F02F 2003/0061** (2013.01 - EP US); **F05C 2201/021** (2013.01 - EP US); **F05C 2201/0448** (2013.01 - EP US); **F05C 2253/12** (2013.01 - EP US)

Citation (search report)

See references of WO 9724520A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 19548811 A1 19970703; DE 59604627 D1 20000413; EP 0870103 A1 19981014; EP 0870103 B1 20000308; JP 2000502772 A 20000307; JP 3945821 B2 20070718; US 5947065 A 19990907; WO 9724520 A1 19970710

DOCDB simple family (application)

DE 19548811 A 19951227; DE 59604627 T 19961112; DE 9602172 W 19961112; EP 96945881 A 19961112; JP 52396297 A 19961112; US 9195198 A 19980626