

Title (en)

Liquid cooled cylinder liner for combustion engines

Title (de)

Flüssigkeitsgekühlte Zylinderlaufbüchse für Brennkraftmaschinen

Title (fr)

Chemise d'un cylindre refroidi par eau pour des moteurs à combustion

Publication

EP 1158154 A3 20020220 (DE)

Application

EP 01103857 A 20010216

Priority

DE 10025527 A 20000523

Abstract (en)

[origin: EP1158154A2] The water-cooled cylinder sleeve (7) has a cooling channel (5) integrated in its rim (6), the end face of which has a sealing surface for a cylinder head gasket. The cooling water is supplied and removed via a transverse bore (3) in the crank housing for each cylinder, communicating with a cooling water bore (4) in the rim of the cylinder sleeve, provided with a seal (8) for preventing water leakage.

IPC 1-7

F02F 1/16

IPC 8 full level

F01P 3/02 (2006.01); **F02F 1/16** (2006.01); **F02F 11/00** (2006.01)

CPC (source: EP US)

F02F 1/16 (2013.01 - EP US)

Citation (search report)

- [A] DE 1941164 A1 19710225 - MASCHF AUGSBURG NUERNBERG AG
- [A] GB 224540 A 19250521 - FIAT SPA
- [A] FR 552635 A 19230504

Cited by

US10876462B1; US2021017895A1

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 1158154 A2 20011128; EP 1158154 A3 20020220; EP 1158154 B1 20041006; DE 10025527 A1 20011129; DE 50103940 D1 20041111; JP 2002004940 A 20020109; US 2001047774 A1 20011206; US 6394046 B2 20020528

DOCDB simple family (application)

EP 01103857 A 20010216; DE 10025527 A 20000523; DE 50103940 T 20010216; JP 2001154564 A 20010523; US 86455001 A 20010523