

Title (en)

A cylinder liner for an internal-combustion engine and an engine provided with such a liner

Title (de)

Zylinderbüchse für eine Brennkraftmaschine und Brennkraftmaschine mit dieser Büchse

Title (fr)

Chemise-cylindre pour un moteur à combustion interne et moteur avec cette chemise

Publication

EP 1391602 A1 20040225 (EN)

Application

EP 03017193 A 20030729

Priority

IT TO20020748 A 20020823

Abstract (en)

An internal-combustion engine (5) comprising an engine block (6) provided with at least one cylinder (7), a liner (8) fitted in the cylinder (7) and a cylinder head (12) mounted on the engine block (6); the liner (8) comprises a cylindrical side wall (9) and an upper collar (20) accommodated in a seating (17) of the engine block surrounding the cylinder (7) and provided with an elastically deformable portion (16) projecting upwards, in the undeformed condition, beyond an upper surface (14) of the engine block (6) so that when the cylinder head (12) is mounted on the engine block (6) this portion (16) is deformed and co-operates elastically in a fluidtight manner with a lower surface (13) of said cylinder head. <IMAGE>

IPC 1-7

F02F 1/10; **F02F 1/16**

IPC 8 full level

B22D 19/00 (2006.01); **F02F 1/10** (2006.01); **F02F 1/16** (2006.01)

CPC (source: EP)

B22D 19/0009 (2013.01); **F02F 1/004** (2013.01); **F02F 1/16** (2013.01)

Citation (search report)

- [X] DE 3530411 A1 19870226 - KLOECKNER HUMBOLDT DEUTZ AG [DE]
- [X] DE 2442352 A1 19760318 - DAIMLER BENZ AG
- [A] DE 1209373 B 19660120 - DAIMLER BENZ AG
- [A] DE 2442738 A1 19760318 - DAIMLER BENZ AG

Cited by

DE102005048537A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1391602 A1 20040225; **EP 1391602 B1 20080820**; AT E405739 T1 20080915; DE 60323019 D1 20081002; ES 2312696 T3 20090301; IT TO20020748 A0 20020823; IT TO20020748 A1 20040224

DOCDB simple family (application)

EP 03017193 A 20030729; AT 03017193 T 20030729; DE 60323019 T 20030729; ES 03017193 T 20030729; IT TO20020748 A 20020823