

Title (en)

Internal combustion engine oil pan.

Title (de)

Ölführungsgehäuse für eine Brennkraftmaschine.

Title (fr)

Carter avec guidage d'huile pour moteur à combustion.

Publication

EP 0437681 B1 19931208 (DE)

Application

EP 90120040 A 19901019

Priority

DE 4001468 A 19900119

Abstract (en)

[origin: EP0437681A1] The oil pan arranged on a [lacuna] below the crank casing of an internal combustion engine has a storage reservoir for lubricating oil and a pan section with a connection for an oil filter. A feed and return for lubricating oil is incorporated in the trough section of the oil pan lying directly beneath the crankshaft. The oil pan ensures directed control of all lubricating oil flows and provides for good venting of the oil.
<IMAGE>

IPC 1-7

F01M 11/00

IPC 8 full level

F01M 11/00 (2006.01); **F02F 7/00** (2006.01)

CPC (source: EP US)

F01M 11/0004 (2013.01 - EP US); **F01M 2011/0079** (2013.01 - EP US)

Cited by

DE102008009873B4; DE102008009873A1

Designated contracting state (EPC)

DE ES FR GB IT NL SE

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EP 0437681 A1 19910724; EP 0437681 B1 19931208; DE 4001468 A1 19910725; DE 4001468 C2 19911031; DE 59003794 D1 19940120; ES 2047227 T3 19940216; JP H04350313 A 19921204; US 5136993 A 19920811

DOCDB simple family (application)

EP 90120040 A 19901019; DE 4001468 A 19900119; DE 59003794 T 19901019; ES 90120040 T 19901019; JP 330291 A 19910116; US 64389291 A 19910122