

Title (en)  
Oil pan

Title (de)  
Ölwanne

Title (fr)  
Carter d'huile

Publication  
**EP 1361345 A1 20031112 (EN)**

Application  
**EP 03252862 A 20030507**

Priority  
JP 2002134757 A 20020509

Abstract (en)  
An object is to provide an oil pan (3) for an internal combustion engine that is capable of decreasing the number of parts, weight and cost, and capable of minimizing the axial length of the crankshaft. In the upper part (3d) of the oil pan (3) mounted on the bottom of an cylinder block (1), a vertical wall (3h) is formed integrally at the open end vertically crossed to the central axis (4a) of the crankshaft, and this vertical wall (3h) is provided with an oil pump (5). <IMAGE>

IPC 1-7  
**F01M 1/02**; **F01M 11/00**

IPC 8 full level  
**F01M 1/02** (2006.01); **F01M 11/00** (2006.01); **F01M 11/03** (2006.01)

CPC (source: EP)  
**F01M 1/02** (2013.01); **F01M 11/0004** (2013.01); **F01M 2011/0029** (2013.01); **F01M 2011/0079** (2013.01)

Citation (search report)

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Designated contracting state (EPC)  
DE FR GB

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**EP 1361345 A1 20031112**; **EP 1361345 B1 20070221**; DE 60311909 D1 20070405; DE 60311909 T2 20071108; JP 2003328719 A 20031119; JP 4079685 B2 20080423

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