

Title (en)
Oil pan structure for an engine

Title (de)
Ölwanne für eine Brennkraftmaschine

Title (fr)
Carter d'huile pour un moteur

Publication
EP 1482134 A3 20050831 (EN)

Application
EP 04253169 A 20040528

Priority
JP 2003150311 A 20030528

Abstract (en)
[origin: EP1482134A2] In an example, an oil pan 8 comprises a bottom plate 26, a vertical wall 27 integrally protruded upwardly from outer edges of the bottom plate 26, an outwardly extending flange 28 formed integral with the vertical wall 27 at the protruded end and fixed to the lower end of a crankcase 2, a pair of bosses 21, 21 located below the outwardly extending flange 28 and integrally projecting laterally outwardly from the outside surface of the vertical wall 27 for supporting a component 14 of an engine 1, and a connecting piece 29 disposed between these two bosses 21, 21 for connecting the two bosses 21, 21 integrally. The bottom plate 26, vertical wall 27, outwardly extending flange 28, bosses 21, 21 and connecting piece 29 are formed by casting. The inner edge 29a of the connecting piece 29 on the side of the vertical wall 27 is formed integral with the outwardly extending flange 28. <??>Such an arrangement can prevent shrinkage cavities from being produced when a pair of bosses are provided on the outside surface of a vertical wall of an oil pan made by casting and these bosses are reinforced. <IMAGE>
[origin: EP1482134A2] The structure has a vertical wall (27) protruding upward from outer edges of a bottom plate (26), and a flange (28) at the protruding end of wall is fixed to a lower end of a crankcase. Two bosses below the flange projects laterally outward from the wall outer surface for supporting an engine component (14). The bottom plate, vertical wall, flange and a connecting piece (29) coupling the bosses are formed by casting. Independent claims are also included for the following: (a) an engine comprising a wall and a support unit extending from the wall for supporting an engine component (b) a mould for use in casting an oil pan structure (c) a method of casting an oil pan structure.

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CPC (source: EP GB)
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