

Title (en)  
Engine and straddle type vehicle

Title (de)  
Motor und im Grätschsitz zu führendes Fahrzeug

Title (fr)  
Moteur et véhicule de type chariot cavalier

Publication  
**EP 2031210 A3 20130417 (EN)**

Application  
**EP 08252876 A 20080829**

Priority  
• JP 2007227088 A 20070831  
• JP 2007312912 A 20071203  
• JP 2008109854 A 20080421

Abstract (en)  
[origin: EP2031210A2] An engine of the invention includes a crankcase (20), which is configured to be dividable by a dividing surface (S1) intersecting an axial center of a crankshaft (40) and an axial center of a balancer shaft (47b). When the engine is mounted on a vehicle, the axial center of the balancer shaft (47b) is disposed between a first horizontal surface (S13) intersecting the axial center of the crankshaft (40) and a second horizontal surface (S12) intersecting a lower end of a crank web.

IPC 8 full level  
**F16H 9/18** (2006.01); **B60K 17/04** (2006.01); **B62M 9/08** (2006.01); **F02B 61/02** (2006.01); **F16H 57/02** (2012.01); **F16H 57/023** (2012.01)

CPC (source: EP)  
**F02B 61/02** (2013.01); **F02B 75/06** (2013.01)

Citation (search report)  
• [XY] JP H02163539 A 19900622 - YAMAHA MOTOR CO LTD  
• [XY] US 5398649 A 19950321 - SHIMAMOTO MAKOTO [JP]  
• [XY] JP 2007085278 A 20070405 - SUZUKI MOTOR CO  
• [Y] JP 2007083849 A 20070405 - HONDA MOTOR CO LTD  
• [I] EP 1433931 A2 20040630 - HONDA MOTOR CO LTD [JP]  
• [I] JP 2005248966 A 20050915 - SUZUKI MOTOR CO  
• [I] JP H05296040 A 19931109 - HONDA MOTOR CO LTD

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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2031210 A2 20090304; EP 2031210 A3 20130417**; EP 2674641 A2 20131218; EP 2674641 A3 20150520; EP 2674641 B1 20170111

DOCDB simple family (application)  
**EP 08252876 A 20080829**; EP 13180600 A 20080829