

Title (en)
ENGINE AND VEHICLE

Title (de)
MOTOR UND FAHRZEUG

Title (fr)
MOTEUR ET VÉHICULE

Publication
EP 3324011 A1 20180523 (EN)

Application
EP 17201839 A 20171115

Priority
JP 2016225749 A 20161121

Abstract (en)
An axis of a cylinder (Ax1) slants at an angle closer to vertical than to horizontal. In a cylinder head (22), a first support wall (36) supports a valve actuating mechanism. A second support wall (37) is disposed away from the first support wall (36) in a direction of an axis (Ax2) of a camshaft (22). A breather plate (70) together with a ceiling wall (38) of the cylinder head forms a breather compartment (Bc1) therebetween. The breather plate (70) overlaps the valve actuating mechanism (45) as seen from a direction of the axis of the cylinder (Ax1). The breather plate (70) includes a bulged portion (71). A lower end of the bulged portion (71) is closer to a first valve (430) end than an upper end of the bulged portion (70).

IPC 8 full level
F01L 1/26 (2006.01); **F01L 1/18** (2006.01)

CPC (source: EP)
F01L 1/181 (2013.01); **F01L 1/182** (2013.01); **F01L 1/26** (2013.01); **F01L 1/267** (2013.01); **F01L 1/20** (2013.01); **F01L 2001/0476** (2013.01); **F01L 2001/467** (2013.01); **F01L 2250/02** (2013.01); **F01L 2303/00** (2020.05); **F01L 2810/02** (2013.01)

Citation (applicant)
• JP 2011106464 A 20110602 - YAMAHA MOTOR CO LTD
• JP 2015010553 A 20150119 - YAMAHA MOTOR CO LTD

Citation (search report)
• [YD] JP 2015010553 A 20150119 - YAMAHA MOTOR CO LTD
• [Y] US 4969434 A 19901113 - NAKAGAWA TERUO [JP]
• [A] EP 0744535 A1 19961127 - PORSCHE AG [DE], et al
• [A] EP 1524414 A2 20050420 - MAHLE TENNEX CORP [JP]
• [A] US 5492086 A 19960220 - KUHNS JACK M [US]
• [A] JP S62188510 U 19871201

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3324011 A1 20180523; **EP 3324011 B1 20190717**; BR 102017024907 A2 20180814; JP 2018084144 A 20180531

DOCDB simple family (application)
EP 17201839 A 20171115; BR 102017024907 A 20171121; JP 2016225749 A 20161121