

Title (en)  
Breather structure of motorcycle engine

Title (de)  
Entlüfterstruktur eines Motorradmotors

Title (fr)  
Structure de circuit de blow-by de moteur de motocyclette

Publication  
**EP 2543834 B1 20160427 (EN)**

Application  
**EP 12173536 A 20120626**

Priority  
JP 2011147808 A 20110703

Abstract (en)  
[origin: EP2543834A1] [Object] To prevent an oil from flowing into a breather outlet (102) in a motorcycle engine (E) even when a vehicle body is considerably leaned with the engine in operation, the motorcycle engine (E) including: an engine body (20) supported by a vehicle-body frame (F) such that an axis (C) of a cylinder bore (26) is arranged in parallel to a vertical plane (VP) in a vehicle-longitudinal direction; a power-transmission-member chamber (61) for moving an endless power transmission member (60) of a timing transmission device (57) provided between a crankshaft (25) and a camshaft (52) constituting a part of a valve system (51), the power-transmission-member chamber (61) formed in the engine body (20) at one side in a lateral direction of a vertical plane (VP) including the axis (C) of the cylinder bore (26); and a breather outlet (102) provided in a cylinder head (23) or a head cover (24), the breather outlet (102) configured to exhaust a blow-by gas introduced into a valve chamber (50) from a crank chamber (27) to the outside of the engine body (20). [Solving Means] The breather passage (85) connecting the valve chamber (50) and the crank chamber (27) is formed in the engine body in such a manner as to be arranged on an opposite side of the vertical plane VP including the axis (C) of the cylinder bore (26) to the power-transmission-member chamber (61).

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Citation (examination)  
• US 2008011280 A1 20080117 - TAWARADA YUICHI [JP], et al  
• US 2008223348 A1 20080918 - TOGASAWA RYUUTA [JP]

Cited by  
DE102017001255A1; EP2784273A1; EP2987972A1; EP2987973A1; EP3499004A1; US11035319B2; EP2899378A1

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