

Title (en)
DIRECT-ACTION VALVE LIFTER FOR INTERNAL COMBUSTION ENGINE

Title (de)
DIREKT WIRKENDER VENTILHEBER FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)
POUSOIR DE SOUPAPE À ACTION DIRECTE POUR MOTEUR À COMBUSTION INTERNE

Publication
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Application
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Abstract (en)
[Problems] A valve lifter with a variable lift mechanism is required to be deployed at a predetermined angle with respect to a cam unit, and the present invention is intended to achieve this requirement with a simple configuration without too much processing such as a fitting of the conventional longitudinal groove and a pin. [Means for Solving the Problems] A cam sliding contact surface of a valve lifter on which a high lift cam and a low lift cam slides is formed to be a smooth inclined surface and a cam slide starting point is lower than a cam slide terminating point, thereby establishing an elevation difference between the cam slide starting point and the cam slide terminating point. As a result, since the high lift cam and the low lift cam always move uphill on the cam sliding contact surface, namely, from the low cam slide starting point toward the high cam terminating point along the slope of the cam sliding contact surface, the valve lifter is not subjected to a force around the reciprocating axis from the cam and therefore, the direction of the valve lifter is maintained constant.

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