

Title (en)

Valve drive apparatus for an internal combustion engine having a convex shim between a cam and a valve

Title (de)

Ventiltriebvorrichtung für eine Brennkraftmaschine mit einem konvexen Abstandsstück zwischen einer Nocke und einem Ventil

Title (fr)

Dispositif d'entraînement de soupape pour un moteur à combustion interne ayant une cale de forme convexe entre une came et une soupape

Publication

EP 0777039 B1 19990616 (EN)

Application

EP 96119089 A 19961128

Priority

- JP 31116495 A 19951129
- JP 29674696 A 19961108

Abstract (en)

[origin: EP0777039A1] A valve drive apparatus having a shim (24) which is prevented from interfering with a cylinder head (28) without decreasing abrasion resistance between the shim and a lifter (23) contacting the shim (24). A three-dimensional cam (21) includes a cam portion (25) having a slanting cam surface (27) inclined with respect to a rotational axis of the cam. The cam (21) is movable in either direction along the rotational axis. The lifter (23) transmits a force generated by a camming action of the cam to a valve (22). The lifter has a first surface contacting the valve and a second surface (32) substantially opposite to the first surface. A shim (24) is interposed between the cam (21) and the lifter (23). The shim (24) has a first surface (33) contacting the cam and a second surface (34) opposite to the first surface (33). The second surface (34) of the shim (24) has a convex spherical shape, and the second surface (32) of the lifter (23) has a concave spherical shape so as to receive the second surface (34) of the shim (24). <IMAGE>

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