

Title (en)

ACTUATOR FOR VARIABLE VALVE MECHANISM

Title (de)

AKTUATOR FÜR EINEN VARIABLEN VENTILMECHANISMUS

Title (fr)

ACTIONNEUR POUR MÉCANISME À SOUPAPES VARIABLES

Publication

EP 2236777 A4 20110216 (EN)

Application

EP 09705652 A 20090123

Priority

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- JP 2008022516 A 20080201
- JP 2008022517 A 20080201
- JP 2008022518 A 20080201
- JP 2008022519 A 20080201

Abstract (en)

[origin: EP2236777A1] A worm (22) and a worm wheel (23) are meshed in an oil storage chamber (34) formed in an actuator housing (18) which rotatably supports a worm shaft (27), a projecting portion (18p) which projects so as to surround the outer periphery of the worm (22) is formed on the inner wall surface of the oil storage chamber (34), an oil jet (18) is open to the inner peripheral surface of the projecting portion (18p) facing the outer periphery of the worm (22), and the opening of the oil jet (18r) is formed at a position overlapping with the worm (22) when viewed from above, whereby oil jetted from the oil jet (18r) flows down by gravity and touches the worm (22) and the oil is held between the worm and the projecting portion (18p) of the actuator housing (18) facing the outer periphery of the worm (22), so the lubricating effect can be improved by causing the oil to fully act on the meshed portion between the worm (22) and the worm wheel (23).

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] EP 1710402 A1 20061011 - TOYOTA MOTOR CO LTD [JP]
- [A] JP 2005331075 A 20051202 - KYOCERA MITA CORP
- [A] US 3595100 A 19710727 - STARK FRIEDRICH, et al
- [A] US 1953068 A 19340403 - BARKER GEORGE A
- See references of WO 2009096337A1

Designated contracting state (EPC)

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