

Title (en)

DEVICE FOR VARIABLY ADJUSTING THE CONTROL TIMES OF GAS EXCHANGE VALVES OF AN INTERNAL COMBUSTION ENGINE

Title (de)

FEDERUNTERSTÜTZTE VORRICHTUNG ZUR VARIABLEN EINSTELLUNG DER STEUERZEITEN VON GASWECHSELVENTILEN EINER BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF DE RÉGLAGE VARIABLE DES TEMPS D'OUVERTURE ET DE FERMETURE DE SOUPAPES D'ÉCHANGE DES GAZ D'UN MOTEUR À COMBUSTION INTERNE

Publication

**EP 2539552 A1 20130102 (DE)**

Application

**EP 11701503 A 20110125**

Priority

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Abstract (en)

[origin: WO2011104055A1] The invention relates to a device (11) for variably adjusting the control times of gas exchange valves (9, 10) of an internal combustion engine (1), comprising a drive element (13), an output element (14), and at least one lateral cover (15). The drive element (13) can be brought into driving connection with a crankshaft (2) of the internal combustion engine (1), and the output element (14) can be brought into driving connection with a camshaft (6, 7) of the internal combustion engine (1) and is arranged in a pivotable manner with respect to the drive element (13). The lateral cover (14) lies on an axial lateral surface of the output element (14) or of the drive element (13) and is connected to the drive element (13) or to the output element (14) in a rotationally fixed manner. A spring element (25) lies on the lateral cover face that faces away from the drive and output element (13, 14), and the lateral cover (15) has a disk-shaped portion (23) from which multiple fixing elements (24) protrude in the axial direction, said elements lying on the lateral cover (15) face that faces away from the drive element (13).

IPC 8 full level

**F01L 1/344** (2006.01)

CPC (source: EP KR US)

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