

Title (en)
Variable valve drive

Title (de)
Einrichtung zur variablen Betätigung von Ventilen

Title (fr)
Commande variable de soupapes

Publication
EP 1375847 A3 20060823 (DE)

Application
EP 03012206 A 20030606

Priority
• DE 10226300 A 20020610
• DE 20220138 U 20021220
• DE 10061618 A 20001211

Abstract (en)
[origin: US2003226530A1] A system for variably actuating valves by means of cams for internal combustion engines has the following type of construction: A camshaft is rotationally supported in the cylinder head and has a fixed position in relation to the valves and their associated stroke-transmitting arrangements. A stroke-transmitting arrangement guided in a fixed position is associated with each of the valves arranged in the cylinder head and closes by means of spring force. A variable position element for adjusting the stroke of the valve is guided in a stationary manner in the cylinder head. An intermediate element is supported and pivotably guided on the variable position element. A cam of the camshaft is engaged by the intermediate element and is supported in a stationary manner in the cylinder head, as well as the stroke-transmitting arrangement associated with the valve.

IPC 8 full level
F01L 1/18 (2006.01); **F01L 1/24** (2006.01); **F01L 13/00** (2006.01)

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F01L 1/185 (2013.01 - EP US); **F01L 1/2405** (2013.01 - EP US); **F01L 13/0005** (2013.01 - EP US); **F01L 13/0026** (2013.01 - EP US); **F01L 13/0063** (2013.01 - EP US); **F01L 2013/0068** (2013.01 - EP US); **F01L 2305/00** (2020.05 - EP US); **Y10T 74/20582** (2015.01 - EP US)

Citation (search report)
• [XY] US 4438736 A 19840327 - HARA SEINOSUKE [JP], et al
• [Y] DE 10006016 A1 20010816 - SCHAEFFLER WAEELZLAGER OHG [DE]
• [XPD] DE 10061618 A1 20020627 - IAV GMBH [DE]
• [XP] DE 10119686 A1 20021114 - IAV GMBH [DE]
• [A] DE 10006015 A1 20010816 - SCHAEFFLER WAEELZLAGER OHG [DE]
• [A] WO 9509298 A1 19950406 - LOTUS CAR [GB], et al
• [A] DE 4326331 A1 19950209 - BAYERISCHE MOTOREN WERKE AG [DE]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2003226530 A1 20031211; US 6955146 B2 20051018; EP 1375847 A2 20040102; EP 1375847 A3 20060823

DOCDB simple family (application)
US 37029003 A 20030219; EP 03012206 A 20030606