

Title (en)
VALVE GEAR

Title (de)
VENTILSTEUERUNGSEINRICHTUNG

Title (fr)
ENSEMBLE DE SOUPAPE D'ECHAPPEMENT

Publication
EP 1646770 A1 20060419 (EN)

Application
EP 04743111 A 20040628

Priority

- GB 2004002762 W 20040628
- GB 0315246 A 20030630
- GB 0406888 A 20040326

Abstract (en)
[origin: WO2005003524A1] Valve gear for an internal combustion engine comprises a camshaft (8) carrying a cam (10) which has a profile which varies in the direction of the camshaft axis (12), the camshaft (8) being axially displaceable to vary the action of the cam (10) on the valve (14). A pair of fingers (30, 32) are interposed between a cam (10) and an associated valve stem (20). The upper finger (30) has a recess (48) along which moves a roller (62) carried by the lower finger (32). The profile of the surface of the recess (48) is such that rotation of the cam (10) is converted into a desired acceleration profile of the valve stem (20), without requiring a re-entrant profile of the cam (10). In one embodiment, the position of the pivot axis of the lower finger (32) can be adjusted during running of the engine to vary the lift characteristic of the valve.

IPC 1-7
F01L 13/00

IPC 8 full level
F01L 13/00 (2006.01)

CPC (source: EP)
F01L 13/0042 (2013.01); **F01L 13/0063** (2013.01)

Citation (search report)
See references of WO 2005003524A1

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005003524 A1 20050113; EP 1646770 A1 20060419

DOCDB simple family (application)
GB 2004002762 W 20040628; EP 04743111 A 20040628