

Title (en)  
ADJUSTABLE VALVE TRAIN WITH HYDRAULIC LIFTERS

Title (de)  
VERSTELLBARER VENTILANTRIEB MIT HYDRAULISCHEN STÖSSELN

Title (fr)  
COMMANDE DE SOUPAPE REGLABLE A POUSSOIRS HYDRAULIQUES

Publication  
**EP 1604098 A2 20051214 (EN)**

Application  
**EP 04718059 A 20040305**

Priority

- US 2004006859 W 20040305
- US 45277803 P 20030307

Abstract (en)  
[origin: WO2004081349A2] A valve train with a hydraulic lifter in an engine, and a method of configuring a hydraulic lifter of an engine, are disclosed. The valve train includes a valve, a cam, and at least one coupling component. The valve train further includes the hydraulic lifter, which has a nominal length and is coupled at least indirectly between the valve and the cam by way of the at least one coupling component. The valve train additionally includes a mechanism for varying the nominal length of the hydraulic lifter so that the nominal length is substantially closer to a minimum length of the hydraulic lifter than to a maximum length of the hydraulic lifter.

IPC 1-7  
**F01L 1/14**; **F01L 1/16**

IPC 8 full level  
**F01L 1/14** (2006.01); **F01L 1/245** (2006.01); **F01L 13/08** (2006.01)

CPC (source: EP)  
**F01L 1/146** (2013.01); **F01L 1/245** (2013.01); **F01L 13/085** (2013.01); **F01L 1/024** (2013.01); **F01L 1/026** (2013.01)

Citation (search report)  
See references of WO 2004081349A2

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 2004081349 A2 20040923**; **WO 2004081349 A3 20050512**; AU 2004219668 A1 20040923; CN 1774562 A 20060517; EP 1604098 A2 20051214; MX PA05009520 A 20051018

DOCDB simple family (application)  
**US 2004006859 W 20040305**; AU 2004219668 A 20040305; CN 200480009812 A 20040305; EP 04718059 A 20040305; MX PA05009520 A 20040305