

Title (en)
VALVE TRAIN ASSEMBLY

Title (de)
VENTILTRIEB

Title (fr)
ENSEMBLE COMMANDE DES SOUPAPES

Publication
EP 1119689 B1 20040121 (EN)

Application
EP 99970148 A 19991005

Priority
• IB 9901699 W 19991005
• IT MI982136 A 19981005

Abstract (en)
[origin: WO0020730A1] A valve train assembly for an internal combustion engine comprises a common carrier which supports the engine's rocker arms by means of individual fulcra each of which preferably forms a part of a hydraulic lash adjuster. Each rocker arm is constructed by deforming a metal sheet into a channel shape, the deformation also forming a part-spherical surface for mating with a surface of the fulcrum. The rocker arms can be snap-fitted on to the fulcra by means of an apertured, resilient sheet.

IPC 1-7
F01L 1/24; F01L 1/18; F01L 1/053

IPC 8 full level
F01L 1/26 (2006.01); **F01L 1/04** (2006.01); **F01L 1/053** (2006.01); **F01L 1/18** (2006.01); **F01L 1/24** (2006.01)

CPC (source: EP)
F01L 1/053 (2013.01); **F01L 1/182** (2013.01); **F01L 1/185** (2013.01); **F01L 1/2405** (2013.01); **F01L 2001/0537** (2013.01); **F01L 2001/187** (2013.01); **F01L 2001/188** (2013.01); **F01L 2305/00** (2020.05)

Cited by
EP2233704A1; DE102010013942A1; DE102008022601A1; US7918200B2; DE102011005851A1; DE102022109243A1; WO2007082622A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0020730 A1 20000413; AT E258271 T1 20040215; BR 9914635 A 20010703; DE 69914348 D1 20040226; DE 69914348 T2 20041104; DE 69914348 T3 20110203; EP 1119689 A1 20010801; EP 1119689 B1 20040121; EP 1119689 B2 20100407; IT 1302601 B1 20000929; IT MI982136 A1 20000406; JP 2002526707 A 20020820; JP 4558938 B2 20101006

DOCDB simple family (application)
IB 9901699 W 19991005; AT 99970148 T 19991005; BR 9914635 A 19991005; DE 69914348 T 19991005; EP 99970148 A 19991005; IT MI982136 A 19981005; JP 2000574812 A 19991005