

Title (en)

CAMSHAFT TORQUE BASED VALVE TIMING ADJUSTMENT

Title (de)

NOCKENWELLENDREHMOMENTBASIERTE ANPASSUNG DER VENTILSTEUERZEIT

Title (fr)

AJUSTEMENT DE LA SYNCHRONISATION DE SOUPAPE BASÉE SUR LE COUPLE D'UN ARBRE À CAMES

Publication

**EP 3073071 A1 20160928 (EN)**

Application

**EP 15160902 A 20150325**

Priority

EP 15160902 A 20150325

Abstract (en)

In an aspect of the present disclosure, a method for deriving a control parameter for a variable valve actuation assembly (40, 140, 240) using a valve spring driven /cam decoupled valve closing process comprises the steps of providing a camshaft driven valve actuation assembly (40, 140, 240) that is configured to provide a cam driven valve opening procedure and the valve spring driven / cam decoupled valve closing process, rotating the camshaft through a sequence of the cam driven valve opening process and the valve spring driven / cam decoupled valve closing process, during the rotation, measuring a torque to be provided for the rotation, and deriving the control parameter from the detected torque.

IPC 8 full level

**F01L 13/00** (2006.01); **F01L 13/06** (2006.01)

CPC (source: EP)

**F01L 13/00** (2013.01); **F01L 13/0021** (2013.01); **F01L 13/0036** (2013.01); **F01L 13/06** (2013.01); **F01L 2800/00** (2013.01)

Citation (search report)

- [A] EP 1816456 A1 20070808 - CASTROL LTD [GB]
- [A] US 4483283 A 19841120 - HAUSKNECHT LOUIS A [US]

Cited by

US10718238B2; US11594081B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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