

Title (en)

Lift-variable valve-operating system for internal combustion engine

Title (de)

Hubvariabler Ventiltrieb für eine Brennkraftmaschine

Title (fr)

Système de contrôle de course variable de soupape pour un moteur à combustion

Publication

**EP 1760278 A3 20100310 (DE)**

Application

**EP 06014987 A 20060719**

Priority

DE 102005040959 A 20050830

Abstract (en)

[origin: EP1760278A2] The system has two cylinders with similarly functioning charge cycle valves (6), where each cylinder is attached to a charge cycle valve operating device (1'). A control (10) has a positioning point for a partial stroke and another positioning point for a full stroke of a charge cycle valve. The control of the operating device of the cylinder includes a third positioning point for zero stroke of the charge cycle valve.

IPC 8 full level

**F01L 13/00** (2006.01)

CPC (source: EP)

**F01L 13/0063** (2013.01); **F01L 2013/0068** (2013.01)

Citation (search report)

- [X] DE 4223172 C1 19930819
- [X] DE 10235401 A1 20040212 - BAYERISCHE MOTOREN WERKE AG [DE]
- [X] US 5373818 A 19941220 - UNGER HARALD [DE]
- [X] EP 1143118 A2 20011010 - BAYERISCHE MOTOREN WERKE AG [DE]
- [X] WO 2004088094 A2 20041014 - HYDRAULIK RING GMBH [DE], et al
- [X] EP 1445434 A1 20040811 - BAYERISCHE MOTOREN WERKE AG [DE]
- [X] DE 10123186 A1 20021114 - BAYERISCHE MOTOREN WERKE AG [DE]

Cited by

CN104066938A; CN104271902A; DE102010048709B4; US9145798B2; US9157381B2; WO2013113425A1; WO2013149737A1; DE102011014744A1; WO2012126648A1; US9133737B2; EP3073072A2; DE102015104633A1; US10450907B2; DE102013113815A1; EP2905437A2; US9464540B2; DE102010048709A1; WO2012052216A1; US8807104B2; EP3006684A1; DE102014114396A1; JP2015512489A; EP2834483B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**EP 1760278 A2 20070307; EP 1760278 A3 20100310**; DE 102005040959 A1 20070308

DOCDB simple family (application)

**EP 06014987 A 20060719**; DE 102005040959 A 20050830