

Title (en)
Variable valve mechanism

Title (de)
Variabler Ventilmechanismus

Title (fr)
Mécanisme de soupape variable

Publication
EP 2299070 A1 20110323 (EN)

Application
EP 10170089 A 20100720

Priority
JP 2009204045 A 20090903

Abstract (en)
The present invention provides a variable valve mechanism that includes a drive cam for supplying a driving force, a link mechanism that opens and closes a valve by transmitting the driving force to the valve and has a plurality of rocking levers connected in sequence by respective joints so as to be relatively rotatable, and a variable mechanism that changes an opening and closing amount of the valve by displacing the link mechanism. One of the rocking levers of the link mechanism is provided with a length adjustment mechanism for adjusting a length of the one rocking lever in which the length adjustment mechanism is provided, and the opening and closing amount of the valve can be adjusted by adjusting the length using the length adjustment mechanism.

IPC 8 full level
F01L 13/00 (2006.01); **F01L 1/20** (2006.01)

CPC (source: EP)
F01L 1/205 (2013.01); **F01L 13/0015** (2013.01); **F01L 13/0021** (2013.01); **F01L 13/0026** (2013.01); **F01L 2013/0073** (2013.01)

Citation (applicant)
JP H0324625 B2 19910403

Citation (search report)
• [X] JP 2006029246 A 20060202 - HITACHI LTD
• [X] EP 1873362 A1 20080102 - OTICS CORP [JP]
• [X] EP 1801368 A1 20070627 - OTICS CORP [JP]
• [X] EP 1619362 A2 20060125 - BAYERISCHE MOTOREN WERKE AG [DE]
• [A] JP 2006105082 A 20060420 - HITACHI LTD
• [A] JP 2007064181 A 20070315 - TOYOTA MOTOR CORP

Cited by
DE102015208455A1

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 SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2299070 A1 20110323; JP 2011052643 A 20110317; JP 5436103 B2 20140305; KR 101624265 B1 20160525; KR 20110025073 A 20110309

DOCDB simple family (application)
EP 10170089 A 20100720; JP 2009204045 A 20090903; KR 20100075307 A 20100804