

Title (en)  
Variable valve train for internal combustion engine

Title (de)  
Variabler Ventiltrieb für einen Verbrennungsmotor

Title (fr)  
Dispositif de commande de soupape variable pour moteur à combustion interne

Publication  
**EP 2644854 B1 20150603 (EN)**

Application  
**EP 13161086 A 20130326**

Priority  
JP 2012082787 A 20120330

Abstract (en)  
[origin: EP2644854A1] [Problem to be Solved] To provide a variable valve train for an internal combustion engine which duty controls an electromagnetic solenoid for moving a connecting pin, thereby reducing power consumption of the electromagnetic solenoid and preventing generation of a hitting sound. [Solution] In a variable valve train for an internal combustion engine, control means (70) energizes an electromagnetic solenoid (60) to cause a moving core member (61, 62) to protrude, and thereby the connecting pin (56) to move against urging force of the spring (54) so that rocker arms (51, 52) are connected together and integrally rocked. The control means (70) duty controls the electromagnetic solenoid (60) and drives the moving core member (61, 62).

IPC 8 full level  
**F01L 1/18** (2006.01); **F01L 1/26** (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP)  
**F01L 1/181** (2013.01); **F01L 1/267** (2013.01); **F01L 13/0036** (2013.01); **F01L 2001/0535** (2013.01); **F01L 2305/00** (2020.05); **F01L 2820/031** (2013.01)

Citation (examination)  
DE 19522582 A1 19961219 - SIEMENS AG [DE]

Cited by  
CN109072727A; EP2876269A3; EP2881557A3; CN106555629A; WO2017156125A3; US11891923B2; TWI583588B; WO2021047796A1

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