

Title (en)  
VARIABLE VALVE DRIVE

Title (de)  
VARIABLER VENTILTRIEB

Title (fr)  
COMMANDE DE SOUPAPE VARIABLE

Publication  
**EP 3564502 B1 20201209 (DE)**

Application  
**EP 19167896 A 20190408**

Priority  
DE 102018110705 A 20180504

Abstract (en)  
[origin: US2019338685A1] The disclosure relates to a variable valve drive, in particular with a sliding cam system, for an internal combustion engine. The variable valve drive has a cam carrier which has a first and second cam and a first, second, and third engagement track. A first actuator is designed to engage into the first engagement track in order to displace the cam carrier in a first axial direction. A second actuator is designed to engage into the second engagement track in order to displace the cam carrier in a second axial direction which is opposite to the first axial direction, and to engage into the third engagement track in order to displace the cam carrier in the first axial direction. The variable valve drive can have the advantage that, even in the event of a failure of the first actuator, a displacement of the cam carrier that is normally effected by means of the first actuator is possible by means of the second actuator.

IPC 8 full level  
**F01L 13/00** (2006.01); **F01L 1/18** (2006.01); **F01L 13/06** (2006.01)

CPC (source: CN EP US)  
**F01L 1/047** (2013.01 - CN); **F01L 1/12** (2013.01 - CN); **F01L 1/181** (2013.01 - EP); **F01L 1/34413** (2013.01 - US); **F01L 13/0036** (2013.01 - EP); **F01L 13/06** (2013.01 - EP US); **F01L 2013/0052** (2013.01 - EP); **F01L 2013/10** (2013.01 - US); **F01L 2305/00** (2020.05 - EP); **F01L 2800/12** (2013.01 - EP)

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

DOCDB simple family (publication)  
**EP 3564502 A1 20191106; EP 3564502 B1 20201209**; BR 102019009118 A2 20191119; CN 110439643 A 20191112; CN 110439643 B 20221025; DE 102018110705 A1 20191107; RU 2019113002 A 20201026; US 10662832 B2 20200526; US 2019338685 A1 20191107

DOCDB simple family (application)  
**EP 19167896 A 20190408**; BR 102019009118 A 20190503; CN 201910371876 A 20190506; DE 102018110705 A 20180504; RU 2019113002 A 20190426; US 201916401983 A 20190502