

Title (en)
VARIABLE VALVE DRIVE WITH A ROCKER ARM

Title (de)
VARIABLER VENTILTRIEB MIT EINEM KIPPEBEL

Title (fr)
COMMANDE DE SOUPAPE VARIABLE COMPRENANT UN CULBUTEUR

Publication
EP 3173593 B1 20190410 (DE)

Application
EP 16002316 A 20161028

Priority
DE 102015015264 A 20151126

Abstract (en)
[origin: US2017152769A1] A variable valve drive for a lifting valve, such as a charge-exchange valve of an internal combustion engine, that is periodically movable between closed and open positions indirectly by way of a cam via a rocker lever. The variable valve drive includes a switchable rocker lever arrangement for the actuation of the lifting valve, having a transmission rocker lever and a valve rocker lever which are mounted pivotably on different rocker lever axles parallel to the camshaft axis. The valve rocker lever, is in operative contact with the lifting valve at a first end, and has a roller, at a second end. The transmission rocker lever, is in engagement with a cam of the camshaft and, is operatively connected to the roller of the valve rocker lever.

IPC 8 full level
F01L 1/08 (2006.01); **F01L 1/18** (2006.01); **F01L 1/20** (2006.01); **F01L 1/24** (2006.01); **F01L 13/00** (2006.01)

CPC (source: CN EP RU US)
F01L 1/08 (2013.01 - EP RU US); **F01L 1/18** (2013.01 - CN EP RU US); **F01L 1/181** (2013.01 - EP RU US); **F01L 1/20** (2013.01 - EP RU US); **F01L 1/24** (2013.01 - EP RU US); **F01L 13/00** (2013.01 - EP RU US); **F01L 13/0005** (2013.01 - EP RU US); **F01L 13/0021** (2013.01 - US); **F01L 13/0063** (2013.01 - EP RU US); **F01L 2001/186** (2013.01 - US); **F01L 2013/0068** (2013.01 - EP US)

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 3173593 A1 20170531; **EP 3173593 B1 20190410**; BR 102016027678 A2 20170725; BR 102016027678 B1 20230131; CN 107035452 A 20170811; CN 107035452 B 20211008; DE 102015015264 A1 20170601; RU 2016145412 A 20180522; RU 2016145412 A3 20200214; RU 2724811 C2 20200625; US 10436079 B2 20191008; US 2017152769 A1 20170601

DOCDB simple family (application)
EP 16002316 A 20161028; BR 102016027678 A 20161125; CN 201611050340 A 20161125; DE 102015015264 A 20151126; RU 2016145412 A 20161121; US 201615359200 A 20161122