

Title (en)
INTERNAL COMBUSTION ENGINE VALVE TRAIN SWITCHING DEVICE

Title (de)
BRENNKRAFTMASCHINENVENTILTRIEBUMSCHALTVORRICHTUNG

Title (fr)
DISPOSITIF D'INVERSION DE L'ENTRAÎNEMENT DE SOUPAPE D'UN MOTEUR À COMBUSTION INTERNE

Publication
EP 2176524 B1 20191204 (DE)

Application
EP 08801531 A 20080807

Priority
• EP 2008006489 W 20080807
• DE 102007037746 A 20070810

Abstract (en)
[origin: WO2009021668A1] The invention relates to an internal combustion engine valve train switching device having a switching unit (36). The invention provides that the switching unit (36) has at least one actuating unit (38) having at least two switching units (1, 2) and at least one switching means (3, 4), which is provided to actuate the at least two switching units (1, 2) in at least one operating mode in an at least partial chronological offset.

IPC 8 full level
F01L 1/053 (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP US)
F01L 1/0532 (2013.01 - EP US); **F01L 13/0036** (2013.01 - EP US); **F01L 2013/0052** (2013.01 - EP US)

Citation (examination)
• DE 19520117 A1 19961205 - PORSCHE AG [DE]
• DE 102004056290 A1 20060601 - AUDI AG [DE]
• US 2007034184 A1 20070215 - DENGLE STEFAN [DE]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102007037746 A1 20090212; DE 102007037746 B4 20220615; CN 101779009 A 20100714; CN 101779009 B 20121003;
EP 2176524 A1 20100421; EP 2176524 B1 20191204; JP 2010535966 A 20101125; JP 5204844 B2 20130605; US 2010180843 A1 20100722;
US 8347838 B2 20130108; WO 2009021668 A1 20090219

DOCDB simple family (application)
DE 102007037746 A 20070810; CN 200880102822 A 20080807; EP 08801531 A 20080807; EP 2008006489 W 20080807;
JP 2010519379 A 20080807; US 65858710 A 20100208