

Title (en)

VARIABLE VALVE DRIVE WITH BRAKE CAM

Title (de)

VARIABLER VENTILTRIEB MIT BREMSNOCKEN

Title (fr)

COMMANDE DE SOUPAPE VARIABLE POURVUE DE CAMES DE FREINAGE

Publication

EP 3382167 B1 20200819 (DE)

Application

EP 18162016 A 20180315

Priority

DE 102017003081 A 20170331

Abstract (en)

[origin: US2018283242A1] A variable valve gear for an internal combustion engine of a motor vehicle has a cam carrier which is arranged on a camshaft in a manner which prevents relative rotation and allows axial movement between a first axial position and a second axial position and has a first cam and a second cam. The first cam is designed for a normal mode of the internal combustion engine, in which the first cam keeps a first exhaust valve open in the exhaust stroke. The second cam is designed for an engine braking mode of the internal combustion engine, in which the second cam initially keeps the first exhaust valve closed in the compression stroke and/or in the exhaust stroke and opens the first exhaust valve before reaching a top dead center of a piston movement.

IPC 8 full level

F01L 1/047 (2006.01); **F01L 13/00** (2006.01); **F01L 13/06** (2006.01)

CPC (source: CN EP RU US)

F01L 1/047 (2013.01 - CN EP RU US); **F01L 1/053** (2013.01 - US); **F01L 13/0036** (2013.01 - EP RU US); **F01L 13/06** (2013.01 - CN EP RU US);
F01L 13/065 (2013.01 - US); **F02D 13/04** (2013.01 - RU US); **F01L 1/143** (2013.01 - US); **F01L 1/185** (2013.01 - US);
F01L 2001/0473 (2013.01 - EP US); **F01L 2001/0537** (2013.01 - US); **F01L 2013/0052** (2013.01 - EP US)

Cited by

IT202100031472A1

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 3382167 A1 20181003; EP 3382167 B1 20200819; BR 102018006143 A2 20190122; BR 102018006143 B1 20230328;
CN 108691591 A 20181023; CN 108691591 B 20220301; DE 102017003081 A1 20181004; RU 2018110602 A 20190926;
RU 2018110602 A3 20210802; RU 2755573 C2 20210917; US 10533466 B2 20200114; US 2018283242 A1 20181004

DOCDB simple family (application)

EP 18162016 A 20180315; BR 102018006143 A 20180327; CN 201810270344 A 20180329; DE 102017003081 A 20170331;
RU 2018110602 A 20180326; US 201815942063 A 20180330