

Title (en)
ENGINE BRAKING METHOD AND SYSTEM

Title (de)
MOTORBREMSVERFAHREN UND SYSTEM

Title (fr)
PROCÉDÉ ET SYSTÈME DE FREINAGE MOTEUR

Publication
EP 3207226 A4 20180516 (EN)

Application
EP 15850672 A 20150521

Priority

- CN 201410544937 A 20141015
- CN 201410546875 A 20141016
- CN 201410620840 A 20141106
- CN 201410632591 A 20141111
- CN 201510095431 A 20150304
- CN 201510097866 A 20150305
- IB 2015001625 W 20150521

Abstract (en)
[origin: WO2016059456A1] An engine braking method includes the steps of engaging a cam roller(235) of an internal combustion engine with an engine power cam(230) for an engine power operation; disengaging the cam roller(235) from the engine power cam(230); losing a motion from the engine power cam(230) and a motion of an engine valve(301) associated with the motion from the engine power cam(230); engaging the cam roller(235) with an engine braking cam(2302) for an engine braking operation; transmitting a motion from the engine braking cam(2302) to the engine valve(301); and generating an engine valve motion for the engine braking operation. An engine braking system includes an engine power cam(230) of an internal combustion engine; an engine braking cam(2302) of the internal combustion engine; and a cam roller(235) that is designed to engage with the engine power cam(230) for an engine power operation and to engage with the engine braking cam(2302) for an engine braking operation.

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Citation (search report)

- [XYI] DE 577588 C 19330601 - MOTORWAGENFABRIK BERNA A G
- [IY] DE 102012012150 A1 20121220 - NEUMAYER TEKFOR HOLDING GMBH [DE]
- [IY] JP H0544410 A 19930223 - FUJI VALVE
- [IY] DE 102007049074 A1 20090416 - SCHAEFFLER KG [DE]
- [IY] US 4354460 A 19821019 - MAE HISAO, et al
- [Y] CN 101994539 A 20110330 - SHANGHAI UNIVERSOON AUTO PARTS CO LTD
- [A] WO 2012162616 A1 20121129 - JACOBS VEHICLE SYSTEMS INC [US], et al
- See references of WO 2016059456A1

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