

Title (en)

Motor brake device and method for motor braking with a valve additional control unit

Title (de)

Motorbremseinrichtung und Verfahren zur Motorbremsung mit einer Ventil-Zusatzsteuereinheit

Title (fr)

Dispositif de frein moteur et procédé de freinage moteur doté d'une unité de commande supplémentaire à soupape

Publication

**EP 2143895 B1 20111221 (DE)**

Application

**EP 09007579 A 20090609**

Priority

DE 102008032774 A 20080711

Abstract (en)

[origin: EP2143895A1] The device has a controllable throttle element in an exhaust channel, and an exhaust valve (5) transforming into an intermediate open position by the throttle element in a throttle position, for engine braking. Mechanical connection mechanisms (7, 8) connects the exhaust valve with a cam shaft, and includes a hydraulic valve-additional control unit (12) that retains the exhaust valve in the intermediate open position. The control unit is switched- on and off by an auxiliary oil circuit (3). A main oil circuit (2) includes an oil guiding channel (10) running inner side of a bearing shaft (6). An independent claim is also included for a method for braking an exhaust valve-brake type self-igniting 4-stroke reciprocating internal combustion engine.

IPC 8 full level

**F01L 13/06** (2006.01); **F02D 9/06** (2006.01)

CPC (source: EP)

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Cited by

CN104265395A; US10669899B2; WO2017008857A1; WO2011135162A1

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