

Title (en)

Method for slowing down a 4 stroke internal combustion engine, in particular, when used for vehicle propulsion

Title (de)

Verfahren zum Abbremsen einer Viertakt-Brennkraftmaschine, insbesondere für den Antrieb eines Fahrzeuges

Title (fr)

Procédé pour ralentir un moteur à combustion interne à 4 temps, en particulier, lors d'une utilisation pour l'entraînement d'un véhicule

Publication

EP 0822321 B1 20020918 (DE)

Application

EP 97102964 A 19970224

Priority

DE 19614923 A 19960416

Abstract (en)

[origin: DE19614923A1] The method enabling rapid deceleration of the four stroke IC engine involves using additional combustion stages during the compression stage and before reaching TDC. This combustion is controlled to generate the required amount of engine braking and is terminated well before TDC. Each cylinder has at least one exhaust valve operated in the special mode. Controlled amounts of fuel are injected for the braking combustion. For diesel engines the fuel injection can be accompanied by a glow plug, or spark assistance. The engine braking is activated by an emergency stop control and/or by emergency braking of the vehicle.

IPC 1-7

F01L 13/06; F02D 13/04

IPC 8 full level

F01L 13/06 (2006.01); **F02D 13/04** (2006.01)

CPC (source: EP)

F01L 13/06 (2013.01); **F02D 13/04** (2013.01)

Cited by

WO2014193349A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 19614923 A1 19971023; **DE 19614923 C2 19990506**; DE 59708241 D1 20021024; EP 0822321 A1 19980204; EP 0822321 B1 20020918

DOCDB simple family (application)

DE 19614923 A 19960416; DE 59708241 T 19970224; EP 97102964 A 19970224