

Title (en)  
Simulation method for a combustion engine

Title (de)  
Verfahren zur Simulation einer Brennkraftmaschine

Title (fr)  
Procédé de simulation d'un moteur à combustion interne

Publication  
**EP 1667043 A1 20060607 (DE)**

Application  
**EP 05107364 A 20050810**

Priority  
DE 102004044814 A 20040916

Abstract (en)  
The method involves creating a thermo-dynamic motor simulation model under consideration of an energy balance, mass balance and gas state equation in a cylinder of an internal combustion engine and in an inlet and outlet system. A controlling and/or adjustment parameter of the engine is issued under input of an input parameter. Pressure and temperature in an intake manifold and in the outlet system is thermo-dynamically evaluated. Independent claims are also included for the following: (A) a device for executing a method for simulating a combustion process in an internal combustion engine (B) a computer program product with program codes for executing a method for simulating a combustion process.

IPC 8 full level  
**G06F 17/50** (2006.01)

CPC (source: EP)  
**F02D 35/02** (2013.01); **F02D 41/1401** (2013.01); **F02D 2041/1433** (2013.01); **F02D 2200/0402** (2013.01); **F02D 2200/1004** (2013.01)

Citation (search report)

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CN112664511A; DE102017217452A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

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