

Title (en)

Method of modulating the performance of a heat engine based on estimating the piston temperature

Title (de)

Modulationsverfahren der Leistungen einer Wärmekraftmaschine, das auf der Schätzung der Ventiltemperatur beruht

Title (fr)

Procédure de modulation de performances d'un moteur thermique base sur une estimation de la température de piston

Publication

**EP 1898079 B1 20140326 (FR)**

Application

**EP 07115763 A 20070905**

Priority

FR 0653643 A 20060908

Abstract (en)

[origin: EP1898079A1] The method involves continuously evaluating a temperature (Tp) of a piston of a heat engine e.g. motor vehicle engine, from data that is obtained from sensors and representing input and output thermal fluxes of the engine. An engine supply parameter e.g. injected fuel flow, is modified, when the temperature reaches a threshold value (T1) corresponding to a nibbling and/or melting risk of the piston and exceeds another threshold value (T2) during a predetermined time interval. The latter threshold value above the interval corresponds to a risk of cracking of the piston.

IPC 8 full level

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CPC (source: EP)

**F02D 35/023** (2013.01); **F02D 35/025** (2013.01); **F02D 41/22** (2013.01); **F02D 41/1487** (2013.01); **F02D 41/18** (2013.01)

Cited by

CN109891074A; FR2942270A1; CN109790790A; EP3517761A4; US10648410B2; WO2019100682A1

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