

Title (en)

Procedure and device for monitoring the combustion in the combustion chamber of an internal-combustion engine

Title (de)

Verfahren und Vorrichtung zum Überwachen der Verbrennungsvorgänge in der Brennkammer einer Brennkraftmaschine

Title (fr)

Procédé et dispositif pour surveiller la combustion dans le cylindre d'un moteur à combustion interne

Publication

**EP 0967391 A3 20020123 (DE)**

Application

**EP 99111230 A 19990609**

Priority

DE 19828595 A 19980626

Abstract (en)

[origin: EP0967391A2] The method involves using a high frequency generator (4) to supply a heating rod (2) of at least one spark plug arranged in a cylinder head (1) of a combustion chamber with a high-frequency voltage. A thereby produced ion current between the heating rod and the surface of the cylinder head is measured and evaluated. The ion current is preferably evaluated with an evaluation circuit (3), especially to determine a pressure in the combustion chamber. An Independent claim is provided for an arrangement for monitoring the combustion process.

IPC 1-7

**F02P 19/02**; **F02P 17/12**; **F02P 23/04**

IPC 8 full level

**F02P 17/12** (2006.01); **F02P 19/02** (2006.01); **F02P 23/04** (2006.01)

CPC (source: EP)

**F02P 17/12** (2013.01); **F02P 19/028** (2013.01); **F02P 23/045** (2013.01); **F02D 35/021** (2013.01); **F02D 35/024** (2013.01); **F02P 19/021** (2013.01); **F02P 2017/125** (2013.01)

Citation (search report)

- [XY] EP 0834652 A1 19980408 - DENSO CORP [JP]
- [YA] DE 19618980 A1 19961114 - NIPPON SOKEN [JP]
- [A] DE 19614288 C1 19970807 - TELEFUNKEN MICROELECTRON [DE], et al

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FR2878314A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0967391 A2 19991229**; **EP 0967391 A3 20020123**; **EP 0967391 B1 20040908**; AT E275697 T1 20040915; DE 19828595 A1 19991230; DE 19828595 C2 20020926; DE 59910432 D1 20041014; ES 2224496 T3 20050301

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