

Title (en)  
SYSTEM FOR OPERATING A HEATING ELEMENT FOR A CERAMIC SENSOR IN A MOTOR VEHICLE

Title (de)  
SYSTEM ZUM BETREIBEN EINES HEIZELEMENTS FÜR EINEN KERAMISCHEN SENSOR IN EINEM KRAFTFAHRZEUG

Title (fr)  
SYSTEME PERMETTANT D'ACTIONNER UN ELEMENT CHAUFFANT POUR UN DETECTEUR CERAMIQUE PLACE DANS UNE AUTOMOBILE

Publication  
**EP 0635148 B1 19990317 (DE)**

Application  
**EP 94900746 A 19931202**

Priority  
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• DE 4300530 A 19930112

Abstract (en)  
[origin: WO9416371A1] The invention relates to a system for operating a heating element (114) of a ceramic sensor (112) which is fitted in the exhaust gas channel (104) of an internal combustion engine (100) and can be heated by the heating element (114). If the operating mode of the internal combustion engine (100) is such that there could be liquid in its exhaust gas channel (104), the heating element (114) is not operated or is controlled in such a way that the ceramic sensor (112) is run below a critical temperature (T<sub>SeK</sub>). Above the critical temperature (T<sub>Se</sub>) there is the danger that the ceramic sensor (112) may be damaged by contact with the liquid.

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**G05D 23/24**; F02D 41/14

IPC 8 full level  
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CPC (source: EP KR US)  
**F02D 41/1494** (2013.01 - EP US); **G05G 23/00** (2013.01 - KR)

Cited by  
DE102009028953A1; DE102008040593A1; DE102009000076A1; DE102009001064A1

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DOCDB simple family (publication)  
**DE 4300530 A1 19940714**; **DE 4300530 C2 20010208**; DE 59309465 D1 19990422; EP 0635148 A1 19950125; EP 0635148 B1 19990317; JP 3464221 B2 20031105; JP H07504754 A 19950525; KR 100261930 B1 20000801; KR 950700566 A 19950116; US 5616835 A 19970401; WO 9416371 A1 19940721

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