

Title (en)  
Device for the detection of ignition signals

Title (de)  
Vorrichtung zum Erfassen von Zündsignalen

Title (fr)  
Dispositif de détection des signaux d'allumage

Publication  
**EP 0707144 B1 19991201 (DE)**

Application  
**EP 95113731 A 19950901**

Priority  
DE 4436574 A 19941013

Abstract (en)  
[origin: EP0707144A2] The ignition signal detection device uses an inductive current measuring device (10) fitted around the ignition cable (11), for detecting the sparkplug current connected in a pair of oscillator circuits (17,20, 17,24,25,40) with different resonance frequencies. The first oscillator circuit (17,20) is tuned for response to a rapid variation in the ignition current at the beginning of the spark, the second oscillator circuit (17,24,25,40) tuned for response to a slow variation in the ignition current during the duration of the ignition spark., Pref. the output signal from the first oscillator circuit is compared with a threshold value for differentiating between a main spark and an auxiliary spark.

IPC 1-7  
**F02P 17/12**; **F02P 17/04**

IPC 8 full level  
**F02P 17/04** (2006.01); **F02P 17/12** (2006.01)

CPC (source: EP)  
**F02P 17/04** (2013.01); **F02P 17/12** (2013.01); **F02P 2017/003** (2013.01)

Cited by  
EP0809020A3; EP2416004A2; US8662059B2

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DOCDB simple family (publication)  
**EP 0707144 A2 19960417**; **EP 0707144 A3 19971119**; **EP 0707144 B1 19991201**; DE 4436574 A1 19960418; DE 59507325 D1 20000105; ES 2140594 T3 20000301

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