

Title (en)  
Ionisation sensor in an ignition system for an internal combustion engine

Title (de)  
Ionisationssensor im Zündsystem einer Brennkraftmaschine

Title (fr)  
Capteur d'ionisation dans un système d'allumage d'un moteur à combustion interne

Publication  
**EP 0922857 B1 20030416 (FR)**

Application  
**EP 98403127 A 19981211**

Priority  
FR 9715803 A 19971212

Abstract (en)  
[origin: EP0922857A1] The secondary winding (Ls) is connected to a spark plug (1) and to a polarizing module (4) which uses a polarizing capacitance (Cp) and Zener diode (Zp) to polarize the plug positively after sparking. The ionization current is amplified (Is) by a PNP transistor and diode (Da) in the amplification module (5) fed from the battery and detected as a voltage (Vs) on a resistor (Rs) in the detecting and conversion unit (6).

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

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

CPC (source: EP)  
**F02P 17/12** (2013.01)

Cited by  
DE10028105B4; DE19953710B4; GB2396187A; GB2396187B; IT201900013755A1; CN115968425A; WO2021019484A1; US7063079B2; US11739722B2

Designated contracting state (EPC)  
DE ES GB IT

DOCDB simple family (publication)  
**EP 0922857 A1 19990616; EP 0922857 B1 20030416**; DE 69813475 D1 20030522; DE 69813475 T2 20040212; FR 2772434 A1 19990618; FR 2772434 B1 20000218

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