

Title (en)

ARRANGEMENT FOR DETECTING A MEASURING SIGNAL ON A HIGH VOLTAGE SIDE, IN PARTICULAR A SIGNAL CORRESPONDING TO ION CURRENT BETWEEN SPARKING PLUG ELECTRODES OF AN INTERNAL COMBUSTION ENGINE

Title (de)

ANORDNUNG ZUM HOCHSPANNUNGSSEITIGEN ERFASSEN EINES MESSSIGNALS, INSBESONDERE EINES DEM IONENSTROM ZWISCHEN DEN ELEKTRODEN EINER ZÜNDKERZE EINER BRENNKRAFTMASCHINE ENTSPRECHENDEN SIGNALS

Title (fr)

ENSEMBLE DESTINE A DETECTER COTE HAUTE TENSION UN SIGNAL DE MESURE, EN PARTICULIER UN SIGNAL CORRESPONDANT AU COURANT IONIQUE ENTRE LES ELECTRODES D'UNE BOUGIE D'ALLUMAGE D'UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 1979608 A1 20081015 (DE)**

Application

**EP 06793455 A 20060912**

Priority

- EP 2006066284 W 20060912
- DE 102005043318 A 20050912

Abstract (en)

[origin: WO2007031521A1] The invention relates to an arrangement for detecting a broad-band measuring signal, in particular a signal corresponding to a ion current between electrodes of a sparking plug (10) of an internal combustion engine. The inventive arrangement comprises three parallel current streams, wherein at least one secondary winding (14) of an igniting transformer (20) is placed in the first current stream. At least one sparking plug (10) spark gap formed by at least two electrodes is located in the second current stream. At least one measuring resistor (Rm) is arranged in the third current stream. The ends of the third current stream are connected directly and/or by means of a diode (D1) to a respective connection of the secondary winding (14) of the igniting transformer (20).

IPC 8 full level

**F02P 17/12** (2006.01); **F02P 3/02** (2006.01); **H01F 38/12** (2006.01)

CPC (source: EP)

**F02P 3/02** (2013.01); **F02P 17/12** (2013.01); **H01F 38/12** (2013.01); **H01F 27/402** (2013.01)

Citation (search report)

See references of WO 2007031521A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2007031521 A1 20070322**; CN 101263299 A 20080910; CN 101263299 B 20100623; DE 102005043318 A1 20070322; EP 1979608 A1 20081015; EP 1979608 B1 20131225; EP 1979608 B8 20140226; JP 2009508131 A 20090226; JP 4672773 B2 20110420

DOCDB simple family (application)

**EP 2006066284 W 20060912**; CN 200680033476 A 20060912; DE 102005043318 A 20050912; EP 06793455 A 20060912; JP 2008530508 A 20060912