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

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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).

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