

Title (en)
INDUCTIVE IGNITION DEVICE COMPRISING A DEVICE FOR MEASURING AN IONIC CURRENT

Title (de)
INDUKTIVE ZÜNDVORRICHTUNG MIT IONENSTROMMESSEINRICHTUNG

Title (fr)
SYSTEME D'ALLUMAGE INDUCTIF COMPORTANT UN DISPOSITIF DE MESURE DE COURANT IONIQUE

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Abstract (en)
[origin: WO0201071A1] The invention relates to an inductive ignition device for an internal combustion engine. Said device has an ignition winding (ZS) comprising a primary winding (L1) and a secondary winding (L2), a diode (D) being provided on the side of the latter (L2). The device also comprises a spark plug (ZK) that has at least one electrode, in addition to a measuring device for determining an ionic current (14). A drain device (16) is provided for eliminating a residual charge that exists between the diode (D) and an electrode of the spark plug (ZK). The drain device (16) preferably contains a high-ohm resistance (R) that is connected in parallel to the diode (D). This allows combustion misfirings in the ionic current signal to be identified in a reliable manner.

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