

Title (en)  
IGNITION SYSTEM AND METHOD FOR CHECKING ELECTRODES OF A SPARK PLUG IN AN INTERNAL COMBUSTION ENGINE

Title (de)  
ZÜNDSYSTEM UND VERFAHREN ZUR ÜBERPRÜFUNG VON ELEKTRODEN EINER ZÜNDKERZE EINER BRENNKRAFTMASCHINE

Title (fr)  
SYSTÈME D'ALLUMAGE ET PROCÉDÉ PERMETTANT DE CONTRÔLER LES ÉLECTRODES D'UNE BOUGIE D'ALLUMAGE D'UN MOTEUR À COMBUSTION INTERNE

Publication  
**EP 3201463 A1 20170809 (DE)**

Application  
**EP 15753632 A 20150803**

Priority  
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• EP 2015067817 W 20150803

Abstract (en)  
[origin: WO2016050388A1] Disclosed are an ignition system and a method for checking electrodes of a spark gap in an ignition system for a combustion chamber of a spark ignition engine. The method comprises the following steps: generating the spark at the spark gap (6) in an operating state, without igniting a combustible mixture in the combustion chamber; determining a characteristic variable or characteristic function that represents the spark current ( $i_2$ ) and/or the spark voltage ( $U_{brenn}$ ) and/or the spark duration; comparing the characteristic variable or characteristic function with a reference value; adjusting energy for voltage build-up for spark formation and/or for maintaining an ignition spark for mixture ignition, in particular for a future ignition process, depending on the difference between the characteristic variable or the characteristic function and the reference value.

IPC 8 full level  
**F02P 17/12** (2006.01); **F02D 41/00** (2006.01); **F02P 9/00** (2006.01); **F02P 15/10** (2006.01); **G01M 15/04** (2006.01); **H01T 13/60** (2011.01)

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Citation (search report)  
See references of WO 2016050388A1

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