

Title (en)  
SPARK PLUG WITH MULTI-STEP INSULATOR SEAT

Title (de)  
ZÜNDKERZE MIT MEHRSTUFIGEM ISOLATORSITZ

Title (fr)  
BOUGIE D'ALLUMAGE POURVUE D'UN SIÈGE D'ISOLATEUR À PLUSIEURS ÉTAGES

Publication  
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Application  
**EP 18717344 A 20180411**

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Abstract (en)  
[origin: WO2018233890A1] The invention relates to a spark plug (1), comprising a housing (3), an insulator (3) arranged within the housing (2), wherein the insulator (3) has a longitudinal axis (X), an insulator base (31), an insulator body (32), an insulator head (33) and an insulator seat (35), which forms a transition from the insulator base (31) to the insulator body (32), a middle electrode (4) arranged within the insulator (3), a ground electrode (5) arranged on an end face of the housing (2) facing a combustion chamber, wherein the ground electrode (5) and the middle electrode (4) are arranged such that the two electrodes form an ignition gap, wherein the housing (2) on its inner side has a housing seat (25), on which the insulator (3) rests via its insulator seat (35), wherein an inner seal (10) is arranged between the housing seat (25) and the insulator seat (35), such that the inner seal (10), the housing seat (25) and the insulator seat (35) form a seal system, wherein the insulator seat (35) has at least one step, which has a first portion (3510) and at least one second portion (3520), wherein the first portion (351) and the second portions (3520) have an angle  $\gamma$  of greater than  $0^\circ$  to one another and the first portion (3510) is parallel to the insulator longitudinal axis (X), wherein the inner seal (10) bears against this first portion (3510), such that a radial sealing face (351) is formed on the insulator (3).

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