

Title (en)  
SPARK PLUG AND INSULATOR COMPOSED OF HIGH-PURITY ALUMINIUM OXIDE CERAMIC

Title (de)  
ZÜNDKERZE MIT EINEM ISOLATOR AUS HOCHREINER ALUMINIUMOXID-KERAMIK

Title (fr)  
BOUGIE AVEC UN ISOLANT EN CÉRAMIQUE D'OXYDE D'ALUMINIUM À HAUTE PURETÉ

Publication  
**EP 2118973 A1 20091118 (DE)**

Application  
**EP 07856717 A 20071213**

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Abstract (en)  
[origin: US2010007260A1] A spark plug is described for Otto-cycle engines having a metallic spark plug body, having a center electrode, having a ceramic insulator, which is arranged between the center electrode and the body and is based on aluminium oxide, and having at least one earth electrode. The invention provides for the insulator to be composed of 0.01% by weight to 1% by weight of magnesium oxide, at most 0.3% by weight of natural and/or impurities, with the rest being aluminium oxide, and being formed by solid-phase sintering so that it is very largely free of glass phases.

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