

Title (en)
An ignition method, an ignition plug and an engine using an ignition plug

Title (de)
Zündverfahren, Zündkerze und eine Zündkerze verwendender Motor

Title (fr)
Procédé d'allumage, bougie d'allumage et moteur utilisant la bougie d'allumage

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Abstract (en)
The invention relates to a method of igniting a spark in an electrical plug provided in a circuit and having a discharge gap for yielding a plurality of consecutive spatially distributed sparks per single ignition event, wherein the method comprises the steps of: applying a breakdown voltage pulses U to the discharge gap with a period of maximally 1 millisecond, said discharge voltage pulses having a leading edge; limiting conductivity current over the discharge gap to below of about 10 mA during an interval corresponding to the said leading edge or ensuring that a conductivity current across the discharge gap is substantially zero during an interval of at least 5% of the said period. The invention further relates to an ignition system comprising a power generator connected to a spark plug using an optional transmission line, preferably comprising coaxial cable. The invention still further relates to an internal combustion engine and a vehicle.

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Citation (applicant)
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