

Title (en)
RAPID MULTIPLE SPARK IGNITION

Title (de)
SCHNELLE VIELFACHFUNKENZJNDUNG

Title (fr)
ALLUMAGE MULTIPLE RAPIDE

Publication
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Application
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Priority
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Abstract (en)
[origin: WO2006056329A1] The invention relates to a rapid multiple spark ignition during which the maximum breakdown voltage for the spark breakdown is repeatedly available during an ignition point window. The ignition system operates with a direct-current converter, with which the vehicle electric system voltage is increased, and with rod ignition transformers whose minimized ignition coils permit a rapid recharging. The ignition electronics operate with a power-output stage that charges the rod ignition transformer by switching a power switch in the ground path of the primary winding. The output stage-power switch is controlled by a timer, which clocks the power switch for the charging of the rod ignition transformer and which, in order to achieve the spark breakdown after charging the ignition transformer, switches to ground in a long conductive manner the primary side of the ignition transformer for a predetermined period of time.

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