

Title (en)
RAPID MULTIPLE SPARK IGNITION

Title (de)
SCHNELLE VIELFACHFUNKENZÜNDUNG

Title (fr)
ALLUMAGE MULTIPLE RAPIDE

Publication
EP 1815131 A1 20070808 (DE)

Application
EP 05803688 A 20051112

Priority
• EP 2005012144 W 20051112
• DE 102004056844 A 20041125

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.

IPC 8 full level
F02P 15/08 (2006.01)

CPC (source: EP US)
F02P 3/02 (2013.01 - EP US); **F02P 15/08** (2013.01 - EP US)

Citation (search report)
See references of WO 2006056329A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 102004056844 A1 20060601; EP 1815131 A1 20070808; JP 2008522066 A 20080626; US 2008121214 A1 20080529;
WO 2006056329 A1 20060601

DOCDB simple family (application)
DE 102004056844 A 20041125; EP 05803688 A 20051112; EP 2005012144 W 20051112; JP 2007541759 A 20051112;
US 79153605 A 20051112