

Title (en)

METHOD AND GENERATOR FOR FORMING A SPARK OVER A SPARK GAP

Title (de)

VERFAHREN UND FUNKGENERATOR ZUR AUSBILDUNG EINES FUNKENS ÜBER EINE FUNKENSTRECKE

Title (fr)

MÉTHODE ET GÉNÉRATEUR POUR FORMER UNE ÉTINCELLE SUR UN ÉCLATEUR

Publication

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Application

EP 20726239 A 20200422

Priority

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- IB 2020053797 W 20200422

Abstract (en)

[origin: WO2020234662A1] In a method for forming a spark over a spark gap, in particular for the inflammation of a flammable liquid for measuring its flame point, with the aid of a spark generator which has an ignition transformer (2) and comprises on the primary side of the ignition transformer (2) at least one DC voltage source (1) and on the secondary side of the ignition transformer (2) two electrodes (5) delimiting the spark gap (6) to be formed, wherein voltage pulses from the DC voltage source (1) are applied to the ignition transformer (2) on the primary side and generate ignition voltage pulses on the secondary side, the ignition transformer is operated in a first phase on the basis of the flyback converter principle and in a subsequent, second phase on the basis of the forward converter principle.

IPC 8 full level

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Citation (examination)

- EP 2639446 A1 20130918 - DELPHI AUTOMOTIVE SYSTEMS LUX [LU]
- US 2018358782 A1 20181213 - MIYAKE KEIKO [JP], et al
- US 2013263835 A1 20131010 - EISEN SVEN-MICHAEL [DE], et al
- DE 69022422 T2 19960515 - SIEMENS AG [DE]

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DOCDB simple family (publication)

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