

Title (en)

SPARK PLUG, IGNITION SYSTEM, ENGINE AND IGNITION METHOD FOR THE ENGINE

Title (de)

ZÜNDKERZE, ZÜNDSYSTEM, MOTOR UND ZÜNDVERFAHREN FÜR DEN MOTOR

Title (fr)

BOUGIE, SYSTEME D'ALLUMAGE, MOTEUR ET PROCEDE D'ALLUMAGE POUR LE MOTEUR

Publication

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Application

EP 11704661 A 20110120

Priority

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Abstract (en)

[origin: WO2011089360A1] The invention relates to a spark plug (1), which includes: a housing (3); an insulator (4); an electrode (5) passing through the insulator (4) and comprising a spike (6); a resonator (7) comprising a supply terminal (70), an output terminal (72) coinciding with the electrode (5), a winding (73) recessed in the housing (3), an earth terminal (71) and a capacitor (74). According to the invention, the distance between the winding (73) and the spike (6) is comprised between 2 cm and 6 cm, the overvoltage (V) is no higher than 30 KV, the spike (6) comprises a head (61) which has a radius (R1) with a curvature no larger than 250 µm, and the resonator (7) has a specific frequency (F) of 3 MHz to 10 MHz. The invention also relates to an ignition system (10) and to an engine (9) using the spark plug (1) as well as to a method for igniting said engine (9).

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