

Title (en)

Spark plugs for internal-combustion engines.

Title (de)

Zündkerzen für Verbrennungsmotoren.

Title (fr)

Bougies d'allumage pour moteurs à combustion interne.

Publication

EP 0376147 A1 19900704 (EN)

Application

EP 89123574 A 19891220

Priority

JP 33201088 A 19881229

Abstract (en)

A spark plug for an automotive internal combustion engine providing improved ignition even when carbon is deposited on the insulator of the plug. A rich fuel-air ratio causes carbon to be deposited on spark plug insulators, thereby decreasing its effective insulation. By limiting the geometrical dimension of the plug's center electrode the problem of carbon build-up is overcome. The sizes of these elements have certain allowable ranges that enhance the igniting effect of the plug.

IPC 1-7

H01T 13/14; **H01T 13/20**

IPC 8 full level

H01T 13/14 (2006.01); **H01T 13/20** (2006.01)

CPC (source: EP)

H01T 13/14 (2013.01); **H01T 13/20** (2013.01)

Citation (search report)

- [X] EP 0287080 A1 19881019 - NIPPON DENSO CO [JP]
- [A] US 4211952 A 19800708 - HATTORI TADASHI [JP], et al
- [A] DE 2215276 A1 19731031 - DAIMLER BENZ AG

Cited by

DE19950922A1; EP0803950A1; US5877584A

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0376147 A1 19900704; **EP 0376147 B1 19940817**; DE 68917573 D1 19940922; DE 68917573 T2 19941215; JP 2805781 B2 19980930; JP H02181383 A 19900716

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