

Title (en)  
SPARK PLUG PROVIDING IMPROVED OPERATING CHARACTERISTICS

Title (de)  
ZÜNDKERZE MIT VERBESSERTEN WIRKUNGSMERKMALEN

Title (fr)  
BOUGIE D'ALLUMAGE A CARACTERISTIQUES DE FONCTIONNEMENT AMELIOREES

Publication  
**EP 1060546 A1 20001220 (EN)**

Application  
**EP 99911035 A 19990302**

Priority

- US 9904552 W 19990302
- US 7666998 P 19980302
- US 8945898 P 19980616
- US 8949198 P 19980616
- US 8949998 P 19980616
- US 11443998 P 19981231

Abstract (en)  
[origin: WO9945615A1] The present invention generally relates to spark plugs for igniting the fuel charge in an internal combustion engine, and is particularly concerned with an improved spark plug construction which improves combustion pressure and fuel mileage and diminishes exhaust pollution, as compared with known prior art plugs.

IPC 1-7  
**H01T 13/32**

IPC 8 full level  
**H01T 13/20** (2006.01); **H01T 13/32** (2006.01)

CPC (source: EP KR)  
**H01T 13/32** (2013.01 - EP KR)

Citation (search report)  
See references of WO 9945615A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9945615 A1 19990910**; AT E282253 T1 20041115; AU 2977299 A 19990920; AU 754005 B2 20021031; BR 9908448 A 20040615; BR PI9908448 B1 20150609; CA 2321616 A1 19990910; CA 2321616 C 20080205; CN 100355167 C 20071212; CN 1292161 A 20010418; CZ 20003201 A3 20010117; CZ 300538 B6 20090610; DE 69921784 D1 20041216; DE 69921784 T2 20051222; DK 1060546 T3 20050214; EP 1060546 A1 20001220; EP 1060546 B1 20041110; ES 2232118 T3 20050516; ID 26507 A 20010111; JP 2002506278 A 20020226; JP 4451984 B2 20100414; KR 100701370 B1 20070328; KR 20010034551 A 20010425; MX PA00008609 A 20030714; NZ 506965 A 20030725; PL 195775 B1 20071031; PL 342728 A1 20010702; PT 1060546 E 20050228

DOCDB simple family (application)  
**US 9904552 W 19990302**; AT 99911035 T 19990302; AU 2977299 A 19990302; BR 9908448 A 19990302; CA 2321616 A 19990302; CN 99803550 A 19990302; CZ 20003201 A 19990302; DE 69921784 T 19990302; DK 99911035 T 19990302; EP 99911035 A 19990302; ES 99911035 T 19990302; ID 20001677 A 19990302; JP 2000535069 A 19990302; KR 20007009713 A 20000902; MX PA00008609 A 19990302; NZ 50696599 A 19990302; PL 34272899 A 19990302; PT 99911035 T 19990302