

Title (en)  
SPARKING PLUGS FOR INTERNAL-COMBUSTION ENGINES

Publication  
**EP 0118789 B1 19870114 (DE)**

Application  
**EP 84101508 A 19840214**

Priority  
DE 3308522 A 19830310

Abstract (en)  
[origin: US4549114A] To increase the spark intensity delivered from a spark plug, an auxiliary spark gap (33) is serially connected with an auxiliary capacitor (37) and the main spark gap (42), the auxiliary capacitor being charged through a charging circuit including a resistor (45) connected in shunt to the auxiliary spark gap (33) and the auxiliary capacitor, and a further or second resistor (46) connected in shunt across the auxiliary capacitor and the ground or chassis electrode (15), and a shunt capacitor (51) is connected between the main spark plug terminal (27) and the ground or chassis or counter electrode (11, 15) so that, upon breakdown of the auxiliary spark gap, the main spark gap will have a voltage thereacross formed by the charge voltage of the main or shunt capacitor (51) and the additional voltage on the auxiliary capacitor (37) which had been charged through the resistors connected across the auxiliary capacitor and to the main spark plug terminal (27) and the ground terminal or electrode (15) respectively.

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**H01T 13/40**; **H01T 13/46**

IPC 8 full level  
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CPC (source: EP US)  
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Cited by  
EP0408089A3; EP0302474A1; EP0147613A3; US9640952B2; US9828967B2; US8672721B2; US8922102B2; US9287686B2

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