

Title (en)  
HIGH-TENSION SPARK PLUG

Publication  
**EP 0101547 A3 19840822 (DE)**

Application  
**EP 83106476 A 19830702**

Priority  
DE 3230362 A 19820814

Abstract (en)  
[origin: EP0101547A2] 1. High-tension spark plus (10), with a metal, substantially tubular shell (11), which has on its outside means (12, 13, 14) for fitting in an internal combustion engine, encloses and seals in its through-hole (16) a substantially rotationally symmetrical, preferably sintered electrical insulator (17) and has on its end section, on the combustion chamber side, an earth electrode (15), which is spaced (spark gap 28) opposite a relatively short centre electrode (26) which is made of precious metal or contains precious metal and is fixed with no play and in sealed manner in the bottom (25), on the combustion chamber side, of the stepped longitudinal hole (24) of the electrical insulator (17), has a smaller diameter than the steps (24/1, 24/2, 24/2"), extending on the terminal side, of the longitudinal hole (24), is in direct contact within the longitudinal hole (24) with a pinshaped metal body (31), which is laterally guided exactly in the longitudinal hole (24) of the electrical insulator (17) and the end section of which, on the terminal side, is contacted in a sealing manner to an electrically conductive casting compound (34) in the longitudinal hole (24), in which (casting compound 34) an end section of an electrically conductive terminal bolt (36) is also anchored, which protrudes with its other end section out of the end, on the terminal side, of the electrical insulator (17), characterized in that the metal body (31) has on the combustion chamber side an end section (30) which tapers toward the centre electrode (26) and is welded at least partially in a depression (29) in the end section, on the terminal side, of the centre electrode (26).

IPC 1-7  
**H01T 13/20**; **H01T 13/34**

IPC 8 full level  
**H01T 13/20** (2006.01); **H01T 13/34** (2006.01); **H01T 13/39** (2006.01); **H01T 13/56** (2006.01)

CPC (source: EP)  
**H01T 13/20** (2013.01); **H01T 13/34** (2013.01); **H01T 13/39** (2013.01)

Citation (search report)

- [A] DE 199601 C
- [A] US 3509403 A 19700428 - KROW CECIL J
- [A] GB 2054738 A 19810218 - MEADOWBANK INVESTMENTS LTD
- [A] GB 801685 A 19580917 - LODGE PLUGS LTD
- [A] US 2072732 A 19370302 - DEVERS PHILIP K
- [A] US 1361328 A 19201207 - FREDERICK HACHMANN, et al
- [A] DE 2308915 A1 19740905 - PICKL OTTO

Cited by  
CN107790862A; DE4431143B4; DE10329269B4; DE10156949A1; DE10156949B4; US6819030B2; US7443089B2; WO9607226A1; EP0845167B1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0101547 A2 19840229**; **EP 0101547 A3 19840822**; **EP 0101547 B1 19871119**; BR 8304350 A 19840320; DE 3230362 A1 19840216; DE 3374633 D1 19871223; ES 524936 A0 19840516; ES 8405206 A1 19840516; JP H0544151 B2 19930705; JP S5949181 A 19840321

DOCDB simple family (application)  
**EP 83106476 A 19830702**; BR 8304350 A 19830812; DE 3230362 A 19820814; DE 3374633 T 19830702; ES 524936 A 19830812; JP 14392883 A 19830808