

Title (en)

Method for producing a spark plug and spark plug

Title (de)

Herstellungsverfahren einer Zündkerze und Zündkerze

Title (fr)

Méthode de fabrication d'une bougie d'allumage et bougie d'allumage

Publication

EP 1519460 A2 20050330 (EN)

Application

EP 04255860 A 20040924

Priority

JP 2003373436 A 20030927

Abstract (en)

A method for producing a spark plug, the spark plug including: a center electrode; an insulator which holds the center electrode therein in a state where a tip end portion of the center electrode protrudes therefrom; a metal shell which holds the insulator therein; a ground electrode which is fixed to the metal shell, the ground electrode having an inner side face having a width that is smaller as it advances toward a tip end side, in a portion of the inner side face positioned between a pair of tapered faces; and a discharge portion which is bonded to the inner side face of the ground electrode by laser welding so as to attain a diameter of 0.8 mm or less and a height of 0.5 mm or more, a discharge gap being formed between the discharge portion and the tip end portion of said center electrode, the method including: forming the tapered faces before the discharge portion is laser-welded to the inner side face.

IPC 1-7

H01T 21/02; **H01T 13/39**

IPC 8 full level

H01T 21/02 (2006.01); **H01T 13/39** (2006.01)

CPC (source: EP)

H01T 13/39 (2013.01); **H01T 21/02** (2013.01)

Citation (applicant)

- JP 2002237365 A 20020823 - DENSO CORP
- US 2002105254 A1 20020808 - HORI TSUNENOBU [JP], et al

Designated contracting state (EPC)

DE FR

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DOCDB simple family (publication)

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