

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

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DE FR

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