

Title (en)

Insulating member for spark plug and method of manufacturing the same, and spark plug for internal combustion engine

Title (de)

Isolierelement für eine Zündkerze und Verfahren zu ihrer Herstellung, sowie Zündkerze für einen Verbrennungsmotor

Title (fr)

Élément isolant pour bougie d'allumage, son procédé de fabrication et bougie d'allumage pour moteur à combustion interne

Publication

EP 2224560 A2 20100901 (EN)

Application

EP 10154924 A 20100226

Priority

JP 2009043697 A 20090226

Abstract (en)

A method of manufacturing an insulating member 2 for a spark plug, the insulating member 2 including an axial hole 4 extending in an axial direction, in which a center electrode 5 is held at a front end side of the axial hole and a terminal 6, e.g. a metal terminal, is held at a rear end side of the axial hole. The method includes: a pressurized forming step of compressing raw powder PM to form a molding CP1 having a hole portion HL, of which a rear end side is opened and a front end side is closed; a support pin inserting step of inserting a rod-shaped support pin 61 into the hole portion 112 from the rear end side of the molding; and a grinding step of grinding an outer circumferential surface of the molding CP1 inserted with the support pin 61 to form an unfired insulating member IP having a shape of the insulating member 2, wherein after the pressurized forming step and before the grinding step, a front end removing step of cutting a front end portion of the molding or grinding the front end portion in an axial direction to penetrate the hole portion is included.

IPC 8 full level

H01T 13/38 (2006.01); **H01T 21/02** (2006.01)

CPC (source: EP)

H01T 13/38 (2013.01); **H01T 21/02** (2013.01)

Cited by

CN104253378A; EP2945234A1; CN105098602A; US9373940B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2224560 A2 20100901; **EP 2224560 A3 20130522**; **EP 2224560 B1 20171018**; JP 2010198951 A 20100909; JP 4709910 B2 20110629

DOCDB simple family (application)

EP 10154924 A 20100226; JP 2009043697 A 20090226