Title (en)

SPARK PLUG

Title (de)

ZÜNDKERZE

Title (fr)

BOUGIE D'ALLUMAGE

Publication

EP 3214706 A1 20170906 (EN)

Application

EP 17156798 A 20170220

Priority

JP 2016040507 A 20160302

Abstract (en)

A spark plug includes: a center electrode (20) extending in a direction of an axis (CL); an insulator that has an axial bore and holds the center electrode (20) in the axial bore; a metal shell (50) that is disposed around the insulator in a radial direction and holds the insulator; and a ground electrode (30) that is electrically connected to the metal shell (50) and forms a gap between the ground electrode (30) and the center electrode (20). The metal shell (50) includes a front end tube portion (55) having a through hole (551) extending therethrough from an outer circumferential surface to an inner circumferential surface thereof and through which gas drawn into the combustion chamber passes, and a front edge (TP) of the insulator can be visually confirmed when seen from a first opening (OP1) of the through hole (551) on the outer circumferential surface side toward a second opening (OP2) of the through hole (551) on the inner circumferential surface side.

IPC 8 full level

H01T 13/16 (2006.01)

CPC (source: CN EP)

H01T 13/16 (2013.01 - EP); H01T 13/34 (2013.01 - CN)

Citation (applicant

WO 2008102842 A1 20080828 - NGK SPARK PLUG CO [JP], et al

Citation (search report)

- [XAI] DE 8908502 U1 19890907
- [XAI] EP 0071577 A1 19830209 ESPADA ANSTALT [LI]
- [A] GB 2404422 A 20050202 FEDERAL MOGUL IGNITION UK LTD [GB]
- [A] US 2015194793 A1 20150709 YAMANAKA KOUJI [JP]

Cited by

US2022360051A1; US11715933B2; US10938184B2

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3214706 A1 20170906; EP 3214706 B1 20191002; CN 107154582 A 20170912; CN 107154582 B 20200512; JP 2017157451 A 20170907

DOCDB simple family (application)

EP 17156798 A 20170220; CN 201710102885 A 20170224; JP 2016040507 A 20160302