Title (en)

IGNITION DEVICE, IGNITION SYSTEM, AND CONNECTOR

Title (de)

ZÜNDVORRICHTUNG, ZÜNDSYSTEM UND VERBINDER

Title (fr)

DISPOSITIF D'ALLUMAGE, SYSTÈME D'ALLUMAGE, ET CONNECTEUR

Publication

EP 3229331 A2 20171011 (EN)

Application

EP 15865499 A 20151207

Priority

- JP 2014247363 A 20141205
- JP 2014252510 A 20141212
- JP 2015038771 A 20150227
- JP 2015084280 W 20151207

Abstract (en)

To provide an ignition device that can improve an air-fuel ratio in an internal combustion engine without a device size enlargement or a high cost performance. The ignition device comprises a center conductor configured to propagate an electromagnetic wave on a surface thereof, a ground conductor for surrounding the center conductor, a second center conductor in a cylindrical manner formed between the center conductor and the ground conductor, insulated from the ground conductor, connected to the center conductor at a rear end side, while spaced away from the center conductor at a front end side, an electromagnetic wave resonation structure formed by the center conductor and the second center conductor, and a projecting discharge electrode part formed at a side surface of a distal end part of the center conductor. A potential at the discharge electrode part is boosted by use of the electromagnetic wave resonation structure, and a discharge is caused between the discharge electrode part and the ground conductor.

IPC 8 full level

H01T 13/20 (2006.01); **F02P 13/00** (2006.01); **F02P 23/04** (2006.01); **H01P 7/04** (2006.01)

CPC (source: EP)

F02P 13/00 (2013.01); **F02P 23/045** (2013.01); **H01P 7/04** (2013.01); **H01T 13/20** (2013.01); **H01T 13/50** (2013.01)

Citation (search report)

See references of WO 2016088899A2

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BA ME

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