

Title (en)
ION CURRENT DETECTION SYSTEM

Title (de)
IONENSTROMERKENNUNGSSYSTEM

Title (fr)
SYSTÈME DE DÉTECTION DE COURANT IONIQUE

Publication
EP 3045818 B1 20181003 (EN)

Application
EP 15202745 A 20151224

Priority
JP 2015006285 A 20150116

Abstract (en)
[origin: EP3045818A1] [Objective] To accurately detect ion current generated as a result of combustion in an internal combustion engine. [Means for Solution] An ignition assist device 10 includes a housing 12; a ceramic member 11 disposed in the housing 12 and having a distal end portion 11a exposed from the housing 12; and a heat-generating element 20 and an ion detection electrode 30 which are embedded in the ceramic member 11 in such a manner as to be electrically insulated from each other. The ignition assist device 10 further includes an ion detection terminal portion 31 for applying an ion detection voltage to the ion detection electrode 30, and two heat-generating-element terminal portions 21 and 22 disposed at such positions as to not come into contact with the internal combustion engine and adapted to supply electricity to the heat-generating element 20.

IPC 8 full level
F23Q 7/00 (2006.01)

CPC (source: EP)
F23Q 7/001 (2013.01); **F23Q 2007/002** (2013.01)

Cited by
CN108869139A

Designated contracting state (EPC)
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