

Title (en)
IGNITION SYSTEM AND METHOD FOR CONTROLLING AN IGNITION SYSTEM FOR AN APPLIED-IGNITION INTERNAL COMBUSTION ENGINE

Title (de)
ZÜNDSYSTEM UND VERFAHREN ZUM STEUERN EINES ZÜNDSYSTEMS FÜR EINE FREMDGEZÜNDETE BRENNKRAFTMASCHINE

Title (fr)
SYSTÈME D'ALLUMAGE ET PROCÉDÉ POUR COMMANDER UN SYSTÈME D'ALLUMAGE DESTINÉ À UN MOTEUR À COMBUSTION INTERNE À ALLUMAGE PAR ÉTINCELLE

Publication
EP 3177824 A1 20170614 (DE)

Application
EP 15730430 A 20150608

Priority
• DE 102014215369 A 20140805
• EP 2015062670 W 20150608

Abstract (en)
[origin: WO2016020087A1] The invention relates to an ignition system and to a method for controlling an ignition system for an applied-ignition internal combustion engine, comprising a primary voltage generator for generating an ignition spark and a boost converter for maintaining an ignition spark. The method has the following steps: - transmitting a signal (t3) from a motor controller to the ignition system in order to determine a specified ignition time for triggering an ignition spark, - transmitting another signal (t3) from the motor controller to the ignition system in order to determine another specified ignition time for triggering another ignition spark, and - transmitting a control signal (t1, t2, t4, t5) for influencing the operating mode of the boost converter from the motor controller to the ignition system between the signal (t3) and the other signal (t3).

IPC 8 full level
F02P 3/045 (2006.01); **F02D 41/26** (2006.01); **F02P 3/04** (2006.01); **F02P 5/00** (2006.01); **F02P 9/00** (2006.01); **F02P 15/10** (2006.01); **F02P 17/12** (2006.01)

CPC (source: CN EP US)
F02P 3/0407 (2013.01 - CN EP US); **F02P 3/045** (2013.01 - CN EP US); **F02P 5/00** (2013.01 - CN EP US); **F02P 9/007** (2013.01 - CN EP US); **F02D 41/266** (2013.01 - CN EP US); **F02P 15/10** (2013.01 - CN EP US); **F02P 2017/121** (2013.01 - CN EP US)

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)
DE 102014215369 A1 20160211; BR 112017002072 A2 20180724; CN 106662064 A 20170510; CN 106662064 B 20190308; EP 3177824 A1 20170614; EP 3177824 B1 20240417; US 10036362 B2 20180731; US 2017211537 A1 20170727; WO 2016020087 A1 20160211

DOCDB simple family (application)
DE 102014215369 A 20140805; BR 112017002072 A 20150608; CN 201580041749 A 20150608; EP 15730430 A 20150608; EP 2015062670 W 20150608; US 201515329697 A 20150608