

Title (en)
Ignition circuit

Title (de)
Zündschaltung

Title (fr)
Circuit d'allumage

Publication
EP 2602477 B1 20230712 (DE)

Application
EP 12008127 A 20121205

Priority
DE 102011120462 A 20111207

Abstract (en)
[origin: EP2602477A2] The ignition circuit has ignition coil (34) that generates ignition spark at spark plug (20) arranged in combustion chamber. A control unit (32) controls the ignition coil. A sensor circuit (37) is configured to supply a voltage to sensor. The sensor circuit is connected to ignition module on the one hand and to reference potential (40) on the other hand. The sensor circuit and power circuit (35) are configured to use the line segment (33) as a common connection to reference potential. The control unit and ignition coil being consolidated in a common component as an ignition module (31) to which generator (12) is connected. The spark plug is located outside of the ignition module. The power circuit is formed by connecting spark plug and ignition coil. A sensor is configured to detect operating parameters of engine and to transmit an output signal to ignition module.

IPC 8 full level
F02P 1/08 (2006.01); **F02P 11/02** (2006.01)

CPC (source: EP US)
F02P 1/08 (2013.01 - EP US); **F02P 1/083** (2013.01 - EP US); **F02P 3/055** (2013.01 - US); **F02P 11/02** (2013.01 - EP); **B27B 17/00** (2013.01 - EP US); **B27B 17/0033** (2013.01 - EP US); **F02B 63/02** (2013.01 - US); **F02D 17/04** (2013.01 - US); **F02D 41/22** (2013.01 - EP US); **F02D 2400/06** (2013.01 - EP US); **F02P 3/055** (2013.01 - EP)

Citation (examination)

- US 2007028881 A1 20070208 - NAKATA HIROSHI [JP], et al
- JP 2005220869 A 20050818 - FUJI HEAVY IND LTD
- EP 0727578 B1 20011219 - DUCATI ENERGIA SPA [IT]

Cited by
CN105092262A

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

DOCDB simple family (publication)
EP 2602477 A2 20130612; EP 2602477 A3 20140827; EP 2602477 B1 20230712; CN 103174576 A 20130626; CN 103174576 B 20161221; DE 102011120462 A1 20130613; US 2013146040 A1 20130613; US 9518552 B2 20161213

DOCDB simple family (application)
EP 12008127 A 20121205; CN 201210521980 A 20121207; DE 102011120462 A 20111207; US 201213707131 A 20121206