

Title (en)

SOLENOID SWITCH AND VEHICLE STARTER MOTOR

Title (de)

MAGNETSCHALTER UND FAHRZEUGANLASSERMOTOR

Title (fr)

COMMUTATEUR ÉLECTROMAGNÉTIQUE ET MOTEUR DE DÉMARREUR DE VÉHICULE

Publication

EP 2975627 A1 20160120 (EN)

Application

EP 15175829 A 20150708

Priority

CN 201410333200 A 20140714

Abstract (en)

The present invention discloses a solenoid switch for use in a vehicle starter motor, comprising: a housing; a cover carrying a pair of contact posts, one end of the cover being fixed to the housing; and a magnetic core fitted in the housing opposite to the end of the cover, wherein an engaging structure between the magnetic core and the housing is independent of the cover such that a force acting on the magnetic core in a direction toward the end of the cover can be absorbed by the engaging structure. The invention also discloses a vehicle starter motor comprising the above solenoid switch. The inventive solenoid switch and vehicle starter motor can prevent an axial movement of the cover.

IPC 8 full level

H01H 51/06 (2006.01); **F02N 11/08** (2006.01); **H01H 50/30** (2006.01)

CPC (source: EP)

F02N 11/087 (2013.01); **H01F 7/088** (2013.01); **H01H 50/30** (2013.01); **H01H 51/065** (2013.01); **F02N 2015/061** (2013.01)

Citation (search report)

- [XAYI] EP 0290734 A2 19881117 - NIPPON DENSO CO [JP]
- [XAYI] US 6239678 B1 20010529 - YAMAUCHI HAYATO [JP]
- [XAI] US 4203084 A 19800513 - AOYAMA KENJIRO [JP], et al
- [Y] DE 102008007077 A1 20090806 - BOSCH GMBH ROBERT [DE]

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 2975627 A1 20160120; **EP 2975627 B1 20170628**; CN 105470049 A 20160406; CN 105470049 B 20190517; PL 2975627 T3 20180629

DOCDB simple family (application)

EP 15175829 A 20150708; CN 201410333200 A 20140714; PL 15175829 T 20150708