

Title (en)

ELECTRIC SOLENOID AND USE OF AN ELECTRIC SOLENOID

Title (de)

ELEKTROSPULE UND VERWENDUNG EINER ELEKTROSPULE

Title (fr)

BOBINE ÉLECTRIQUE ET UTILISATION D'UNE BOBINE ÉLECTRIQUE

Publication

EP 3084781 A1 20161026 (DE)

Application

EP 14806274 A 20141203

Priority

- DE 102013226572 A 20131219
- EP 2014076381 W 20141203

Abstract (en)

[origin: WO2015090964A1] The invention relates to an electric solenoid (10) comprising at least one solenoid body (11) and a magnet wire (25; 25a) surrounding the solenoid body (11) in the form of at least one winding on a peripheral surface (16) of said solenoid body (11), the magnet wire (25; 25a) consisting of an electrically conductive wire core (23) and an insulation layer (26) which at least partially surrounds the wire core (23). According to the invention, the wire core (23) consists of aluminium (21) and graphene (22) which is in electrically conductive contact with the aluminium (21).

IPC 8 full level

H01F 5/00 (2006.01); **H01B 1/02** (2006.01); **H01B 1/04** (2006.01); **H01B 7/00** (2006.01)

CPC (source: EP RU US)

F02M 51/06 (2013.01 - RU); **F02M 51/061** (2013.01 - US); **H01B 1/02** (2013.01 - RU); **H01B 1/023** (2013.01 - EP US); **H01B 1/04** (2013.01 - RU); **H01B 7/00** (2013.01 - RU); **H01F 5/00** (2013.01 - EP US); **H01F 5/02** (2013.01 - RU); **H01F 5/06** (2013.01 - RU); **H01F 7/06** (2013.01 - US); **H01F 27/2823** (2013.01 - EP US); **H01F 27/2847** (2013.01 - 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)

WO 2015090964 A1 20150625; CN 106104716 A 20161109; CN 106104716 B 20181218; DE 102013226572 A1 20150625; EP 3084781 A1 20161026; EP 3084781 B1 20170920; RU 2016129242 A 20180123; RU 2659563 C1 20180703; US 2016336103 A1 20161117

DOCDB simple family (application)

EP 2014076381 W 20141203; CN 201480069575 A 20141203; DE 102013226572 A 20131219; EP 14806274 A 20141203; RU 2016129242 A 20141203; US 201415106278 A 20141203