Title (en)

ELECTRIC CONTACT ARRANGEMENT FOR CONTACTING A COIL

Title (de)

ELEKTRISCHE KONTAKTANORDNUNG ZUR KONTAKTIERUNG EINER SPULE

Title (fr)

AGENCEMENT DE CONTACTS ÉLECTRIQUES POUR CONNECTER UNE BOBINE

Publication

EP 2926413 B1 20161221 (DE)

Application

EP 13774394 A 20131004

Priority

- DE 102012221897 A 20121129
- EP 2013070677 W 20131004

Abstract (en)

[origin: WO2014082776A1] The invention relates to an electric contact arrangement for contacting a coil (120), in particular a coil (120) of a rotational speed sensor, said electric contact arrangement comprising the following components: a retaining body (200), said retaining body (200) being electrically insulated; a line section (142); at least one electric line (240), said electric line (140) being surrounded by an electric insulating layer; and at least one spring element (300). The at least one spring element (300) is electrically conductive and has at least one opening (320), and at least some regions of the edge of the at least one opening (320) form a cutting edge (322). The at least one cutting edge (322) of the at least one spring element (300) is pressed against the line section (142) such that the at least one cutting edge (322) penetrates the electric insulating layer, and an electric contact is established between the at least one spring element (300) and the at least one line section (142). The aim of the invention is to permanently ensure the electric contact of the coil. This is achieved in that at least one bus bar (400) is provided, wherein the at least one bus bar (400) is electrically conductive, and the retaining body (200) and/or the at least one bus bar (400) is provided with clamping means (240). The bus bar (400) is securely clamped on the retaining body (200) by means of the clamping means (240), the spring element (300) thus being clamped between the bus bar (400) and a contact region (220) of the retaining body (200), and in this manner the at least one line section (142) is brought into electric contact with the at least one bus bar (400) by means of the at least one spring element (300). The invention further relates to the use of such an electric contact arrangement (100) in a rotational speed sensor in order to detect the rotational speed in a turbocharger.

IPC 8 full level

H01F 5/04 (2006.01); **H01R 4/24** (2006.01)

CPC (source: CN EP US)

H01F 5/04 (2013.01 - EP US); **H01F 27/29** (2013.01 - CN); **H01R 4/24** (2013.01 - CN); **H01R 4/2416** (2013.01 - US); **H01R 4/247** (2013.01 - CN)

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)

WO 2014082776 A1 20140605; CN 104823326 A 20150805; CN 104823326 B 20170704; DE 102012221897 A1 20140605; EP 2926413 A1 20151007; EP 2926413 B1 20161221; JP 2016500196 A 20160107; JP 5946590 B2 20160706; KR 102076472 B1 20200212; KR 20150090089 A 20150805; US 2015303591 A1 20151022; US 9431722 B2 20160830

DOCDB simple family (application)

EP 2013070677 W 20131004; CN 201380062586 A 20131004; DE 102012221897 A 20121129; EP 13774394 A 20131004; JP 2015542193 A 20131004; KR 20157014174 A 20131004; US 201314648584 A 20131004