Title (en)

CONDUCTOR TERMINAL

Title (de)

LEITERANSCHLUSSKLEMME

Title (fr)

BORNE DE CONNEXION DE CONDUCTEUR

Publication

EP 2956992 B1 20190703 (DE)

Application

EP 14704142 A 20140212

Priority

- DE 102013101406 A 20130213
- EP 2014052715 W 20140212

Abstract (en)

[origin: WO2014124958A1] A conductor terminal (1) is described having an insulating material housing (2) and having at least one spring-loaded clamping connection (11) in said insulating material housing (2), and having at least one actuation element (4) that is pivotably accommodated in the insulating material housing (2) and is designed to open in each case at least one associated spring-loaded clamping connection (11). The actuation element (4) has two side wall portions (8a, 8b) which are spaced from each other and at least partially enter the insulating material housing (2) with a pivot bearing region (14) and, opposite said pivot bearing region (14), are connected to each other by a transversal connecting part (5) to form a lever arm. The pivot bearing regions (14) of the spaced side wall portions (8a, 8b) of an actuation element (4) form an axis of rotation (D) about which the actuation element (4) is pivotably mounted in the insulating material housing (2). An associated spring-loaded clamping connection (11) is at least partially accommodated in the space between the pivot bearing regions (14) of an actuation element (4). The pivot bearing regions (14) have actuation portions (16) which are each designed to act on an associated clamping spring (17) of a spring-loaded clamping connection (11) when the actuation element (16) is pivoted from a closed position into an open position. The actuation portions (4) are arranged at a distance from each other that is smaller at the pivot bearing regions (14) of the side wall portions (8a, 8b) than the distance between the side wall portions (8a, 8b). The actuation portions (16) extend parallel to the side wall portions (8a, 8b) and are formed integrally with the side wall portions (8a, 8b) in such a way that a guide slot (30) is present between each actuation portion (16) and the associated, directly adjacent side wall portion (8a, 8b). In each case, a guiding connecting part (27) of the insulating material housing (2) enters an associated guide slot (30) for guiding the actuation element (4) when there is a pivoting movement about an axis of rotation (D) in the pivot bearing region (14).

IPC 8 full level

H01R 4/48 (2006.01)

CPC (source: CN EP RU US)

H01R 4/48 (2013.01 - RU); **H01R 4/4821** (2023.08 - CN EP RU); **H01R 4/483** (2023.08 - CN EP RU); **H01R 4/48365** (2023.08 - US); **H01R 13/6275** (2013.01 - CN US); **H01R 13/62905** (2013.01 - CN US); **H01R 13/639** (2013.01 - CN US); H01R 4/4835 (2023.08 - CN EP RU); H01R 4/48455 (2023.08 - US); H01R 4/485 (2023.08 - CN EP RU)

Citation (examination)

- CN 102437480 A 20120502 - PANASONIC ELEC WORKS CO LTD
- CN 1713453 A 20051228 - MATSUSHITA ELECTRIC WORKS LTD [JP]

Citation (opposition)

Opponent : Phoenix Contact GmbH & Co. KG

- DE 1575118 A1 19700416 - GIERSIEPEN ELTECH IND
- JP 2012064351 A 20120329 - PANASONIC ELEC WORKS CO LTD
- CN 1713453 A 20051228 - MATSUSHITA ELECTRIC WORKS LTD [JP]
- DE 69530364 T2 20040212 - MOLEX INC [US]
- EP 1622224 B1 20090610 - LEGRAND FRANCE [FR], et al
- DE 3822980 A1 19900111 - LUMBERG KARL GMBH & CO [DE]
- DE 102007050936 A1 20090507 - WAGO VERWALTUNGS GMBH [DE]
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- EP 2605335 A2 20130619 - WAGO VERWALTUNGS GMBH [DE]
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- EP 3125372 A1 20170201 - WAGO VERWALTUNGS GMBH [DE]
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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

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US 2016006176 A1 20160107; US 2017047680 A1 20170216; US 9543700 B2 20170110; US 9825402 B2 20171121; WO 2014124958 A1 20140821

DOCDB simple family (application)

DE 102013101406 A 20130213; CN 201480008499 A 20140212; CN 201610814907 A 20140212; DE 202014010783 U 20140212; DE 202014011234 U 20140212; EP 14704142 A 20140212; EP 16173966 A 20140212; EP 2014052715 W 20140212; ES 14704142 T 20140212; JP 2015557406 A 20140212; KR 20157021569 A 20140212; PL 14704142 T 20140212; RU 2015134849 A 20140212; RU 2017133673 A 20140212; US 201414767525 A 20140212; US 201615335646 A 20161027