

Title (en)
PARALLEL SCREW CONNECTION

Title (de)
PARALLELER SCHRAUBANSCHLUSS

Title (fr)
BORNE À VISSER EN PARALLÈLE

Publication
EP 3120420 A1 20170125 (DE)

Application
EP 15706667 A 20150121

Priority
• DE 102014103826 A 20140320
• DE 2015100027 W 20150121

Abstract (en)
[origin: WO2015139682A1] In parallel screw connections (3), which are preferably used in series terminals, the transmission of force from the connection screw (32) to electric conductors (41) which have different diameters is not always optimal. As a solution, the clamping element (33) is mounted in or on the connection housing (31) both in a movable manner as well as in a rotational manner about a rotational axis (333). By screwing the connection screw (32), the clamping element (33) is moved in the direction of the electric conductor (41), mechanically contacts the electric conductor (41), is rotated by further screwing the connection screw (32) about the rotational axis (333), and thus presses the electric conductor (41) against the busbar (2) with a corresponding degree of force. In this manner, an optimal pressing force is ensured independently of the respective diameter of the electric conductor (41).

IPC 8 full level
H01R 4/40 (2006.01); **H01R 4/50** (2006.01); **H01R 9/26** (2006.01)

CPC (source: CN EP KR US)
H01R 4/305 (2013.01 - US); **H01R 4/40** (2013.01 - CN EP KR US); **H01R 4/5008** (2013.01 - CN EP KR US); **H01R 4/505** (2013.01 - EP US); **H01R 9/26** (2013.01 - CN EP KR US); **H01R 43/20** (2013.01 - US); **H01R 4/505** (2013.01 - CN)

Citation (search report)
See references of WO 2015139682A1

Citation (examination)
• KR 960012304 B1 19960918 - DAEWOO ELECTRONICS CO LTD [KR]
• WO 2012000919 A1 20120105 - WEIDMUELLER INTERFACE [DE], et al

Cited by
DE102019107355A1

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)
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DOCDB simple family (application)
DE 2015100027 W 20150121; CN 201580014898 A 20150121; DE 102014103826 A 20140320; EP 15706667 A 20150121; KR 20167028222 A 20150121; RU 2016141059 A 20150121; US 201515116792 A 20150121