

Title (en)

A connecting device and a low-voltage switching device comprising the same

Title (de)

Eine Verbindungsvorrichtung und diese enthaltendes Niederspannungs-Schaltgerät

Title (fr)

Un dispositif de connexion et un interrupteur électrique à basse tension comprenant un tel dispositif de connexion

Publication

EP 1837887 A1 20070926 (EN)

Application

EP 06005650 A 20060320

Priority

EP 06005650 A 20060320

Abstract (en)

A connecting device (30) comprises a housing (32) comprising an opening (38) for receiving an electrical conductor, and a tool opening (37) and at least one spring-force clamp connector (S, 31, 32) in said housing (32), comprising a bent leaf spring (S) and a responsive counterpart wall (31), the bending of the leaf spring (S) forming a first leg (33) and a second leg (36), said leaf spring (S) adapted i) to clamp an electrical conductor between said first leg (33) and said counterpart wall (31) and ii) to release said electrical conductor upon being pressed through said tool opening (37) by a pressing tool- The housing (32) further comprises a further opening (39) for receiving a second electrical conductor (40). The leaf spring (S) is adapted, in response to receiving a second electrical conductor (40) through said further opening (39), to allow bending of said second leg (36) and so to clamp said second electrical conductor (40) between said second leg (36) and a second counterpart wall (31). An independent claim for a low-voltage switching device.

IPC 8 full level

H01H 1/58 (2006.01); **H01R 4/48** (2006.01)

CPC (source: EP)

H01H 1/5844 (2013.01); **H01H 71/082** (2013.01); **H01R 4/4821** (2023.08); **H01R 4/4842** (2023.08); **H01R 9/2675** (2013.01); **H01R 13/631** (2013.01); **H01H 9/26** (2013.01); **H01R 4/485** (2023.08); **H01R 9/2458** (2013.01); **H01R 13/62** (2013.01); **H01R 31/06** (2013.01)

Citation (applicant)

- DE 10236790 C1 20031016 - MOELLER GMBH [DE]
- EP 1026782 A1 20000809 - SCHNEIDER ELECTRIC IND SA [FR]

Citation (search report)

- [X] DE 29818669 U1 19990204 - WAGO VERWALTUNGS GMBH [DE]
- [X] DE 19949387 A1 20010531 - ELECTRO TERMINAL GMBH [AT], et al
- [X] DE 3514098 A1 19861023 - WAGO VERWALTUNGS GMBH [DE]
- [X] US 6126494 A 20001003 - FUCHS HELMUT [DE], et al
- [X] EP 1022808 A2 20000726 - WAGO VERWALTUNGS GMBH [DE]
- [X] DE 19710306 A1 19980827 - WAGO VERWALTUNGS GMBH [DE]

Cited by

EP2093787A1; CN103329357A; EP3264532A1; CN102931501A; EP1865577A4; WO2014086937A1; US8858269B2; US7942692B2; WO2008113397A1; WO2011047740A1; US8986030B2; US9065260B2; US9438014B2; US9515461B2

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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