

Title (en)
Connecting terminal

Title (de)
Anschlussklemme

Title (fr)
Terminal de connexion

Publication
EP 2738880 A1 20140604 (EN)

Application
EP 13003735 A 20130726

Priority
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Abstract (en)

The invention is about a connecting terminal (3) for electrical conductors, having a contact element (40) substantially in the form of a U-profile, provided for the purpose of electrically contacting the conductor, having a substantially U-shaped clamping spring (41), in the form of a leaf spring, which keeps the conductor in electrical and mechanical connection with the contact element (40), and having an insulating housing (4) which accommodates the contact element (40) and the clamping spring (41), said housing (4) having an insertion side (60), a mounting side (61), a top side (62), a bottom side (63), and at the insertion side (60) at least one insertion opening (42) for the conductor, said contact element (40) having a first profile section (43) possessing substantially a L-shape with a first and a second limb (46, 47) and with a plug-in opening (44) which is aligned with respect to the insertion opening (42), and with a second, substantially flat profile section (45), whereby the clamping spring (41) has a support limb (48) abutting on the second profile section (45) of the contact element (40), and a clamping limb (49) which is configured to be positioned with its free end against a conductor inserted into the plug-in opening (44) to press it against the first limb (46) of the contact element (40) and to be pushed towards the support limb (48) for releasing the conductor from the first limb (46), whereby the clamping spring (41) is accommodated within the U-profile of the contact element (40), whereby the U-shapes of both the clamping spring (41) and the contact element (40) open towards the mounting side of the housing (4), that an arrester bar with a substantially U-profiled cross-section is accommodated within the U-profile of the clamping spring, whereby the U-shape of the arrester bar opens towards the mounting side (61) of the housing (4), and whereby a first limb of the arrester bar abuts on the support limb (48) of the contact spring (49), and whereby a second limb of the arrester bar extends in the open space between the support limb (48) and the clamping limb (49) of the clamping spring (41) to serve as a dead stop for the bending movement of the clamping limb (49) when releasing the conductor from the first limb (46) of the contact element (40).

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Citation (applicant)
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Citation (search report)
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• [Y] DE 29818669 U1 19990204 - WAGO VERWALTUNGS GMBH [DE]
• [A] US 6315597 B1 20011113 - COYNE JAMES CHRISTOPHER [US], et al
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CN107453134A

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EP 13003735 A 20130726; DK 13003735 T 20130726; PL 13003735 T 20130726; RU 2013153232 A 20131129