

Title (en)
TERMINAL BLOCK WITH LATERAL ELASTIC HANDLES

Title (de)
KLEMMLEISTE MIT SEITLICHEN ELASTISCHEN GRIFFEN

Title (fr)
BLOC TERMINAL À MANCHES ÉLASTIQUES LATÉRAUX

Publication
EP 3657605 B1 20220420 (EN)

Application
EP 18207842 A 20181122

Priority
EP 18207842 A 20181122

Abstract (en)
[origin: EP3657605A1] A terminal block has an insertion opening (101) and an exit opening (102) disposed at opposite sides of the insulation base (10). A side opening (103) is located at an outer surface of the insulation base (10) between the insertion opening (101) and the exit opening (102). A conducting terminal structure (20) includes a first conductive sheet (21) and a second conductive sheet (22) connected to the first conductive sheet (21). The first conductive sheet (21) is extended with a stopping plate (211). A spring plate (30) includes an abutting section (31) abutted against the stopping plate (211) elastically. An elastic handle includes a clamping portion (41) and a resilience arm (42). The resilience arm (42) is fixed to the insulation base (10), and the clamping portion (41) presses the abutting section (31). Thereby, the height of the terminal block can be reduced for saving space and cost.

IPC 8 full level
H01R 4/48 (2006.01); **H01R 13/11** (2006.01)

CPC (source: EP US)
H01R 4/483 (2023.08 - EP US); **H01R 13/112** (2013.01 - EP); **H01R 4/4821** (2023.08 - EP US); **H01R 4/4852** (2023.08 - EP US); **H01R 9/2491** (2013.01 - EP)

Citation (examination)
• DE 3743410 C2 19920213
• DE 19949387 B4 20121220 - ADELS KG [DE], et al

Citation (opposition)
Opponent : Phoenix Contact GmbH & Co. KG,
• US 9397444 B1 20160719 - WU SHANG-TSAI [TW]
• DE 3743410 A1 19890629 - ELECTRO TERMINAL GMBH [AT]
• EP 1094551 A1 20010425 - ELECTRO TERMINAL GMBH [AT]
• EP 0246199 A2 19871119 - GIBI ELETTRIO SRL [IT]
• US 2012029549 A1 20120202 - WESTON MARK A [US]
• US 9466897 B1 20161011 - WU SHANG-TSAI [TW]

Cited by
CN111740264A; EP4191796A1; FR3130081A1

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