

Title (en)
Connecting device and connection system for insulated electric conductors

Title (de)
Anschlussvorrichtung und Anschlussystem für isolierte elektrische Leiter

Title (fr)
Dispositif de connexion et système de connexion pour conducteurs électriques isolés

Publication
EP 1744404 B2 20130911 (DE)

Application
EP 06405279 A 20060630

Priority
CH 11702005 A 20050714

Abstract (en)
[origin: EP1744404A1] The device has a one-piece housing, and multiple, one-piece contact elements held by the housing. The contact elements include two clip clamping and piercing contacts (3.1, 3.2) contacting for contacting respective conductors. Transition sections (3.3) run between the two contacts and the contact elements form contact element pairs (11). The contact elements are asymmetrically formed, so that the transition sections of the contact elements of one contact element pair are closer than the transition sections of adjacent contact elements of different pair. An independent claim is also included for a connecting system including a connecting device.

IPC 8 full level
H01R 9/24 (2006.01); **H01R 4/24** (2006.01); **H01R 13/641** (2006.01)

CPC (source: EP)
H01R 4/2429 (2013.01); **H01R 9/2408** (2013.01); **H01R 13/6474** (2013.01)

Citation (opposition)
Opponent :

- FR 2495847 A1 19820611 - CARPANO & PONS [FR]
- WO 2006132972 A1 20061214 - COMMScope SOLUTIONS PROPERTIES [US], et al
- EP 1720221 A1 20061108 - 3M INNOVATIVE PROPERTIES CO [US]
- DE 29909786 U1 19990826 - QUANTE AG [DE]
- US 4995829 A 19910226 - GEIB LAWRENCE E [US], et al
- US 5281163 A 19940125 - KNOX GEORGE JACK [US], et al

Cited by
DE202008005934U1; DE102012010620A1; DE112009000669B4; EP2443703A4; DE202008007544U1; EP2015590A2; US8512067B2; DE202008007545U1; US9001995B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
RS

DOCDB simple family (publication)
EP 1744404 A1 20070117; EP 1744404 B1 20101222; EP 1744404 B2 20130911; AT E492926 T1 20110115; AU 2006202891 A1 20070201; AU 2006202891 B2 20080807; CN 100486036 C 20090506; CN 1909289 A 20070207; DE 502006008543 D1 20110203; ES 2358440 T3 20110510; JP 2007027116 A 20070201; PL 1744404 T3 20110531; RU 2006124747 A 20080127; RU 2345455 C2 20090127; SG 129368 A1 20070226; UA 94567 C2 20110525

DOCDB simple family (application)
EP 06405279 A 20060630; AT 06405279 T 20060630; AU 2006202891 A 20060706; CN 200610106341 A 20060714; DE 502006008543 T 20060630; ES 06405279 T 20060630; JP 2006191761 A 20060712; PL 06405279 T 20060630; RU 2006124747 A 20060711; SG 200604587 A 20060707; UA A200607631 A 20060710