

Title (en)  
Screwless electrical terminal

Title (de)  
Schraubenlose elektrische Anschlussklemme

Title (fr)  
Borne de contact électrique sans vis

Publication  
**EP 0335093 B1 19960403 (DE)**

Application  
**EP 89102641 A 19890216**

Priority  
CH 116088 A 19880328

Abstract (en)  
[origin: EP0335093A2] In a housing (1, 2), for example of an electrical installation apparatus, there is a retaining space (3) for the insertion of an electrical conductor (4) which is to be connected and which is inserted through a hole (5) in the housing. A boundary of the retaining space (3) is formed by an electrical contact piece (6) against which the electrical conductor (4) is pressed by means of a V-shaped leaf spring (7) having identical limbs. An operating device (10) is used for forcing back the leaf spring (7), which operating device extends on both sides of the contact piece (6) into the retaining space (3) for the electrical conductor (4) with two parallel limbs (11, 12) which are constructed on one end. The two limbs (11, 12) are constructed offset in the form of a step on the end, so that in the case of both limbs there is an inwardly turning stepped shoulder (13) against which the clamping edge (8) of the leaf spring (7) rests. On insertion of the electrical conductor (4), the leaf spring end executes a curved pivoting movement, the limbs (11, 12) of the operating device (10), which are in driven engagement with the clamping edge (8) of the leaf spring (7), executing the same movement in the insertion direction of the electrical conductor and inwards, so that the operating device (10) then assumes an oblique position in order in this way to indicate in a visually identifiable manner the correctly completed connection of the electrical conductor (4).  
<IMAGE>

IPC 1-7  
**H01R 4/48**

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

CPC (source: EP)  
**H01R 4/4821** (2023.08); **H01R 4/483** (2023.08)

Cited by  
DE102008039864A1; EP1914839A3; AT403635B; DE102008039864B4; US6146187A; US6250950B1; US5915991A; US6338646B1; DE19504092A1; DE19504092B4; DE102004062850B3; DE4344132A1; AT404773B; EP1914839A2; US6921276B2; US8535084B2; EP3121904A1

Designated contracting state (EPC)  
AT DE ES FR IT

DOCDB simple family (publication)  
**EP 0335093 A2 19891004; EP 0335093 A3 19900725; EP 0335093 B1 19960403**; AT E136404 T1 19960415; CH 674282 A5 19900515; DE 58909639 D1 19960509; ES 2086306 T3 19960701

DOCDB simple family (application)  
**EP 89102641 A 19890216**; AT 89102641 T 19890216; CH 116088 A 19880328; DE 58909639 T 19890216; ES 89102641 T 19890216