Title (en)

RETAINER MEMBER WITH DUAL ACTION CANTILEVER BEAMS

Publication

EP 0043437 B1 19850306 (EN)

Application

EP 81104120 A 19810529

Priority

CA 355309 A 19800703

Abstract (en)

[origin: EP0043437A2] A retaining member (10) for retaining cylindrical members, such as rods and wires, has a base (13) and a pair of cantilevered dual action beams (11, 12) extending from the base, the beams having parallel opposed spaced apart inner edges (14), each beam having an upper and a lower portion (11a, 12a, 11b, 12b), the lower portion (11a, 12a) having an upwardly and inwardly inclined outer edge (16a, 16b) and the upper part (11b, 12b) having an upwardly and outwardly inclined outer edge (17a, 17b), the conjunction of the two portions forming a neck (18), and an entrance portion defined by a downwardly and inwardly inclined upper edge (19) on each beam (11, 12), the upper edges merging with the inner edges by a radius (20). Insertion of a cylindrical member (26) deforms the upper portions (11b, 12b) to a large extent the portions bending about the necks (18). The lower portions (11a, 12a) are deformed to a lesser extent and have substantially uniform stress distribution. The members (10) are particularly useful as contacts for insulation conductors, the insulation (27) being crushed and during passage between the upper portions (11b, 12b) of the beams (11, 12) and removed on passage past the necks (18). The conductor (26) is deformed while being pushed down between the upper portions (11b, 12b) and past the necks (18), to give a highly effective connection.

IPC 1-7

H01R 4/24; H01R 13/58

IPC 8 full level

H01R 4/24 (2006.01)

CPC (source: EP)

H01R 4/2425 (2013.01)

Cited by

FR2659514A1; GB2202998A; US5482467A; US4876474A; US5797763A; EP0715371A3; EP0665614A3; US5685733A; WO8602497A1; WO9111832A1

Designated contracting state (EPC)

DE GB NL SE

DOCDB simple family (publication)

EP 0043437 A2 19820113; **EP 0043437 A3 19820929**; **EP 0043437 B1 19850306**; CA 1115796 A 19820105; DE 3169168 D1 19850411; JP H0355662 U 19910529; JP H0414855 Y2 19920403; JP S5730274 A 19820218

DOCDB simple family (application)

EP 81104120 A 19810529; CA 355309 A 19800703; DE 3169168 T 19810529; JP 2054690 U 19900302; JP 9608681 A 19810623