

Title (en)

Electrical terminal with outer backup spring

Title (de)

Elektrische Anschlussbuchse mit einer Überfeder

Title (fr)

Borne électrique avec un ressort externe de renforcement

Publication

EP 0656674 B1 19990317 (EN)

Application

EP 94118966 A 19941201

Priority

GB 9324806 A 19931203

Abstract (en)

[origin: EP0656674A2] An electrical receptacle terminal (2) comprises an inner contact (4) and an outer backup spring (6) disposed closely therearound. The outer backup spring has a pair of opposed spring members (54) disposed over cantilever contact arms (14) of the inner contact (4). The spring members (54) comprise a first spring arm (56) and lateral second spring-support arms (62) disposed substantially orthogonally thereto. The first and second spring arms are joined at a front end (64) by an L-shaped joining section (66), and separated by a slot (68) extending from the joining section (66) to a body section (42) of the backup spring. The second arms (62) of the spring member (54), substantially increase the spring force of the first spring arm (54) against which the inner contact arms (14) are biased during insertion of a complementary male tab therebetween. The spring force of the inner contact arms (14) are further increased by providing a U-shaped tab (70) folded over free end tips (22) of the contact arms to limit sliding movement thereof. The joining section (66) at the front end of the backup spring is aligned with the box-shaped body section (42) and reduces rocking of the terminal when inserted into a corresponding cavity of a connector housing. Furthermore, the inner contact body is well protected from external objects. <IMAGE>

IPC 1-7

H01R 13/18; **H01R 13/115**

IPC 8 full level

H01R 13/115 (2006.01); **H01R 13/15** (2006.01); **H01R 13/18** (2006.01); **H01R 13/11** (2006.01)

CPC (source: EP)

H01R 13/18 (2013.01); **H01R 13/113** (2013.01)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0656674 A2 19950607; **EP 0656674 A3 19960403**; **EP 0656674 B1 19990317**; DE 69417161 D1 19990422; DE 69417161 T2 19990909; GB 9324806 D0 19940119; JP H07201393 A 19950804

DOCDB simple family (application)

EP 94118966 A 19941201; DE 69417161 T 19941201; GB 9324806 A 19931203; JP 32963094 A 19941202