

Title (en)
Electrical connector capable of exerting a selectively variable contact force

Title (de)
Elektrischer Steckverbinder mit variabler Kontaktierungskraft

Title (fr)
Connecteur électrique avec force de contact variable

Publication
EP 1158619 A3 20020703 (EN)

Application
EP 01111933 A 20010518

Priority
US 57864800 A 20000525

Abstract (en)
[origin: EP1158619A2] An electrical connector (11) for mating with a male contact of a mating connector is capable of exerting a selectively variable contact force. The electrical connector (11) includes a conducting member (20) having a lead (26) and a contact beam (24a, 24b) electrically coupled to the lead (26). The contact beam (24a, 24b) is adapted to resiliently engage the male contact. The electrical connector (11) further comprises a contact housing (15). At least a portion of the lead (26) is disposed within the contact housing (15). At least a portion of the contact beam (24a, 24b) is disposed within the contact housing (15) so that the contact beam (24a, 24b) is urged into and restrained by the contact housing (15) when the contact beam (24a, 24b) resiliently engages the male contact. A contact force is thereby generated between the contact beam (24a, 24b) and the contact pin (28). The contact housing (15) is capable of being selectively positioned in relation to the contact beam (24a, 24b) so that a point of restraint on the contact beam (24a, 24b) is selectively variable. The contact force between the contact beam (24a, 24b) and the male contact can thereby be varied on a selective basis. <IMAGE>

IPC 1-7
H01R 13/115; **H01R 13/193**

IPC 8 full level
H01R 13/11 (2006.01); **H01R 13/115** (2006.01); **H01R 13/506** (2006.01); **H01R 24/00** (2006.01)

CPC (source: EP)
H01R 13/112 (2013.01); **H01R 13/506** (2013.01)

Citation (search report)
• [X] US 5475922 A 19951219 - TAMURA AKIRA [JP], et al
• [A] US 4402563 A 19830906 - SINCLAIR WILLIAM Y [US]
• [A] US 6050862 A 20000418 - ISHII TAKASHI [JP]

Cited by
EP1909344A1; US7759899B2

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