Title (en)

CONNECTOR MECHANISMS

Publication

EP 0151253 B1 19900912 (EN)

Application

EP 84114672 A 19841204

Priority

US 57746084 A 19840206

Abstract (en)

[origin: EP0151253A2] A connector mechanism for electrically connecting two structures 22, 24 carrying conducting lines 26, comprises fixed contacts 28 on one of the structures and floating contacts 30 on the other of the structures, the floating contacts being free to move towards and away from the fixed contacts and across the fixed contacts as independent motions, under the control of a common actuator 50, 52, 54, each floating contact being an electrically integral part, carried by the actuator, of a flexible conductive film 34. The provision of a shroud 46 on tne fixed contact structure carrying markings 48A, 48B registered with the fixed contacts 28 and engaging the actuator provides coarse location, while the flexibility of the film and the mounting of the floating contacts on a resilient pad 38 on a carriage 50 provided with cam followers 54 riding on a multi-throw linear cam 52, together comprising the actuator permits independent locating and wiping motions, independently of each other and at selected pressures, including zero pressure on insertion, making the connector mechanism an effective ZIF connector.

IPC 1-7

H01R 13/193; H01R 23/68

IPC 8 full level

H01R 12/89 (2011.01); **H01R 24/00** (2006.01)

CPC (source: EP)

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Cited by

EP0378819A1; EP0402613A3; EP0367737A3; US4846713A; EP0440528A3; FR2657744A1; EP0438504A4; EP0683549A3; US4840575A; EP0683549A2

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EP 84114672 A 19841204; DE 3483209 T 19841204; JP 26469084 A 19841217