

Title (en)
RIBBON-LIKE CORE INTERCONNECTION ELEMENTS

Title (de)
FLACHBANDKABELVERBINDUNGSELEMENTE

Title (fr)
ELEMENTS D'INTERCONNEXION CENTRAUX DE TYPE RUBANS

Publication
EP 0828582 A4 19990203 (EN)

Application
EP 96916923 A 19960528

Priority

- US 9608274 W 19960528
- US 45225595 A 19950526
- US 52624695 A 19950921
- US 53358495 A 19951018
- US 55490295 A 19951109
- US 9514909 W 19951113
- US 55833295 A 19951115
- US 1287896 P 19960305

Abstract (en)
[origin: WO9637333A1] Interconnection elements (550) for electronic components (556), exhibiting desirable mechanical characteristics (such as resiliency), for making pressure contact(s) are formed by shaping a ribbon-like core element (552) of a soft material (such as gold or soft copper) to have a springable shape (including cantilever beam, S-shape, U-shape), and overcoating the shaped core element with a hard material (558) such as nickel and its alloys, to impart a desired spring (resilient) characteristic to the resulting composite interconnection element (550). A final overcoat of a material (220) having superior electrical qualities (e.g., electrical conductivity and/or solderability) may be applied to the composite interconnection element (200). The resulting interconnection elements (500, 550) may be mounted to a variety of electronic components.

IPC 1-7
B23K 31/02

IPC 8 full level
B23K 20/00 (2006.01); **B23K 31/02** (2006.01); **C23C 18/16** (2006.01); **C25D 7/12** (2006.01); **G01R 1/073** (2006.01); **G01R 31/28** (2006.01); **H01L 21/00** (2006.01); **H01L 21/48** (2006.01); **H01L 21/56** (2006.01); **H01L 21/60** (2006.01); **H01L 21/603** (2006.01); **H01L 21/66** (2006.01); **H01L 23/32** (2006.01); **H01L 23/48** (2006.01); **H01L 23/485** (2006.01); **H01L 23/49** (2006.01); **H01L 23/498** (2006.01); **H01L 25/065** (2006.01); **H01L 25/16** (2006.01); **H05K 3/32** (2006.01); **H05K 3/40** (2006.01); **C25D 5/08** (2006.01); **C25D 5/22** (2006.01); **C25D 21/02** (2006.01); **G01R 1/067** (2006.01); **H05K 1/14** (2006.01); **H05K 3/20** (2006.01)

CPC (source: EP US)
B23K 20/004 (2013.01 - EP); **H01L 21/4853** (2013.01 - EP); **H01L 21/4889** (2013.01 - EP); **H01L 21/563** (2013.01 - EP); **H01L 22/20** (2013.01 - EP); **H01L 23/49811** (2013.01 - EP); **H01L 24/11** (2013.01 - EP); **H01L 24/12** (2013.01 - EP); **H01L 24/72** (2013.01 - EP); **H01L 24/78** (2013.01 - EP); **H01L 24/81** (2013.01 - EP); **H01L 25/0652** (2013.01 - EP); **H01L 25/16** (2013.01 - EP); **H05K 3/326** (2013.01 - EP); **H05K 3/4015** (2013.01 - EP US); **B23K 2101/40** (2018.07 - EP); **C25D 5/605** (2020.08 - EP US); **C25D 21/02** (2013.01 - EP); **G01R 1/06711** (2013.01 - EP); **G01R 31/2886** (2013.01 - EP); **H01L 2224/13099** (2013.01 - EP); **H01L 2224/16145** (2013.01 - EP); **H01L 2224/45014** (2013.01 - EP); **H01L 2224/45015** (2013.01 - EP); **H01L 2224/45124** (2013.01 - EP); **H01L 2224/45144** (2013.01 - EP); **H01L 2224/45147** (2013.01 - EP); **H01L 2224/73203** (2013.01 - EP); **H01L 2224/78301** (2013.01 - EP); **H01L 2224/78302** (2013.01 - EP); **H01L 2224/78306** (2013.01 - EP); **H01L 2224/81801** (2013.01 - EP); **H01L 2224/85201** (2013.01 - EP); **H01L 2224/85203** (2013.01 - EP); **H01L 2224/85205** (2013.01 - EP); **H01L 2224/85207** (2013.01 - EP); **H01L 2225/0651** (2013.01 - EP); **H01L 2225/06527** (2013.01 - EP); **H01L 2225/06555** (2013.01 - EP); **H01L 2225/06572** (2013.01 - EP); **H01L 2924/00014** (2013.01 - EP); **H01L 2924/01004** (2013.01 - EP); **H01L 2924/01005** (2013.01 - EP); **H01L 2924/01006** (2013.01 - EP); **H01L 2924/01012** (2013.01 - EP); **H01L 2924/01013** (2013.01 - EP); **H01L 2924/01014** (2013.01 - EP); **H01L 2924/01015** (2013.01 - EP); **H01L 2924/01019** (2013.01 - EP); **H01L 2924/01027** (2013.01 - EP); **H01L 2924/01028** (2013.01 - EP); **H01L 2924/01029** (2013.01 - EP); **H01L 2924/01033** (2013.01 - EP); **H01L 2924/01039** (2013.01 - EP); **H01L 2924/01042** (2013.01 - EP); **H01L 2924/01045** (2013.01 - EP); **H01L 2924/01046** (2013.01 - EP); **H01L 2924/01047** (2013.01 - EP); **H01L 2924/01049** (2013.01 - EP); **H01L 2924/0105** (2013.01 - EP); **H01L 2924/01051** (2013.01 - EP); **H01L 2924/01057** (2013.01 - EP); **H01L 2924/01074** (2013.01 - EP); **H01L 2924/01078** (2013.01 - EP); **H01L 2924/01079** (2013.01 - EP); **H01L 2924/01082** (2013.01 - EP); **H01L 2924/014** (2013.01 - EP); **H01L 2924/10253** (2013.01 - EP); **H01L 2924/10329** (2013.01 - EP); **H01L 2924/14** (2013.01 - EP); **H01L 2924/1532** (2013.01 - EP); **H01L 2924/19041** (2013.01 - EP); **H01L 2924/30107** (2013.01 - EP); **H01L 2924/3011** (2013.01 - EP); **H01L 2924/3025** (2013.01 - EP); **H05K 1/141** (2013.01 - EP); **H05K 3/20** (2013.01 - EP)

Citation (search report)

- [X] DE 4022664 A1 19920123 - STANDARD ELEKTRIK LORENZ AG [DE]
- See references of WO 9637333A1

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
WO 9637333 A1 19961128; AU 5964096 A 19961211; CN 1191500 A 19980826; EP 0828582 A1 19980318; EP 0828582 A4 19990203; JP 2002509640 A 20020326

DOCDB simple family (application)
US 9608274 W 19960528; AU 5964096 A 19960528; CN 96195738 A 19960528; EP 96916923 A 19960528; JP 53594896 A 19960528