

Title (en)

SHAPED SPRINGS AND METHODS OF FABRICATING AND USING SHAPED SPRINGS

Title (de)

GEFORMTE FEDERN UND DESSEN HERSTELLUNGSVERFAHREN UND VERWENDUNG DER GEFORMTEN FEDERN

Title (fr)

RESSORTS FACONNES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION

Publication

EP 1275150 A2 20030115 (EN)

Application

EP 01922806 A 20010328

Priority

- US 0109994 W 20010328
- US 54756100 A 20000412
- US 54756000 A 20000412

Abstract (en)

[origin: WO0180315A2] An interconnection element and a method of fabricating and using an interconnect element that includes a first element material adapted to be coupled to a substrate and a second element material comprising a material having a transformable property such that upon transformation, a shape of the interconnection is modified. An example is a material that has a transformable property such that a volume of the first and/or second element material may undergo a thermal transformation from one volume to a different volume (such as a smaller volume).

IPC 1-7

H01L 23/48

IPC 8 full level

G01R 1/073 (2006.01); **G01R 1/067** (2006.01); **H01L 21/60** (2006.01); **H01L 23/48** (2006.01); **H01L 23/485** (2006.01); **H01R 33/76** (2006.01); **G01R 3/00** (2006.01)

CPC (source: EP KR)

G01R 1/06761 (2013.01 - EP); **H01L 23/48** (2013.01 - KR); **H01L 24/11** (2013.01 - EP); **H01L 24/13** (2013.01 - EP); **G01R 1/06744** (2013.01 - EP); **G01R 1/07342** (2013.01 - EP); **G01R 3/00** (2013.01 - EP); **H01L 2224/13** (2013.01 - EP); **H01L 2224/13099** (2013.01 - EP); **H01L 2924/0002** (2013.01 - EP); **H01L 2924/01006** (2013.01 - EP); **H01L 2924/01013** (2013.01 - EP); **H01L 2924/01015** (2013.01 - EP); **H01L 2924/01019** (2013.01 - EP); **H01L 2924/01022** (2013.01 - EP); **H01L 2924/01024** (2013.01 - EP); **H01L 2924/01027** (2013.01 - EP); **H01L 2924/01029** (2013.01 - EP); **H01L 2924/0103** (2013.01 - EP); **H01L 2924/01033** (2013.01 - EP); **H01L 2924/01039** (2013.01 - EP); **H01L 2924/0104** (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 2924/01074** (2013.01 - EP); **H01L 2924/01075** (2013.01 - EP); **H01L 2924/01078** (2013.01 - EP); **H01L 2924/01079** (2013.01 - EP); **H01L 2924/01082** (2013.01 - EP); **H01L 2924/01088** (2013.01 - EP); **H01L 2924/01094** (2013.01 - EP); **H01L 2924/01322** (2013.01 - EP); **H01L 2924/014** (2013.01 - EP); **H01L 2924/09701** (2013.01 - EP); **H01L 2924/10329** (2013.01 - EP); **H01L 2924/14** (2013.01 - EP); **H01L 2924/1433** (2013.01 - EP); **H01L 2924/15787** (2013.01 - EP)

Citation (search report)

See references of WO 0180315A2

Citation (examination)

- WO 9914404 A1 19990325 - FORMFACTOR INC [US], et al
- US 5810609 A 19980922 - FARACI ANTHONY B [US], et al

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 0180315 A2 20011025; **WO 0180315 A3 20020328**; AU 4956701 A 20011030; CN 100339985 C 20070926; CN 1451179 A 20031022; EP 1275150 A2 20030115; JP 2003531495 A 20031021; KR 100801353 B1 20080205; KR 100835027 B1 20080603; KR 20020090234 A 20021130; KR 20070093456 A 20070918; TW 546803 B 20030811

DOCDB simple family (application)

US 0109994 W 20010328; AU 4956701 A 20010328; CN 01811005 A 20010328; EP 01922806 A 20010328; JP 2001577609 A 20010328; KR 20027013734 A 20021012; KR 20077018582 A 20070814; TW 90108014 A 20010403