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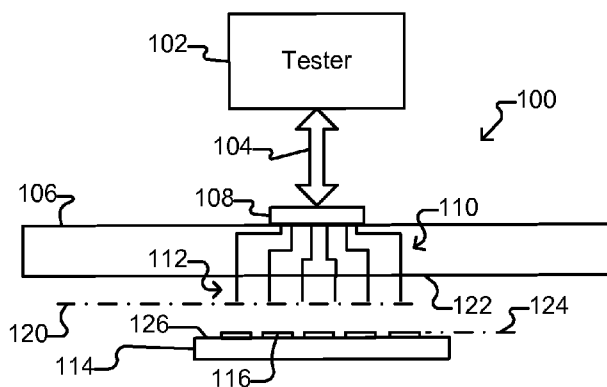
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(54) Title: NON-LINEAR VERTICAL LEAF SPRING

Figure 1



(57) Abstract: An electrically conductive contact element can include a first base and a second base with elongate, spaced apart leaves between the bases. A first end of each leaf can be coupled to the first base and an opposite second end of the leaf can be coupled to the second base. A body of the leaf between the first end and the second end can be sufficiently elongate to respond to a force through said contact element substantially parallel with the first axis and the second axis by first compressing axially while said force is less than a buckling force and then bending while said force is greater than the buckling force.



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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G01R 1/067; G01R 31/26; G01R 1/06; H05K 1/00; H01R 4/48; G01R 1/073

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: CONTACT, PIN, NIDDLE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2001-0012739 A1 (GARY W. GRUBE et al.) 09 August 2001 See abstract, paragraphs [0103]-[0109], and figure 9A	25-28 1-24
A	US 2009-0045831 A1 (KIMOTO GUNSEI) 19 February 2009 See abstract; claim 1 and figure 3A	1-28
A	KR 10-2001-0030367 A (ADVANTEST CORP.) 16 April 2001 See abstract; claim 1 and figure 2	1-28
A	JP 2008-032400 A (FUJIFILM CORP.) 14 February 2008 See abstract; claim 1 and figure 1	1-28

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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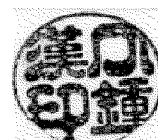
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