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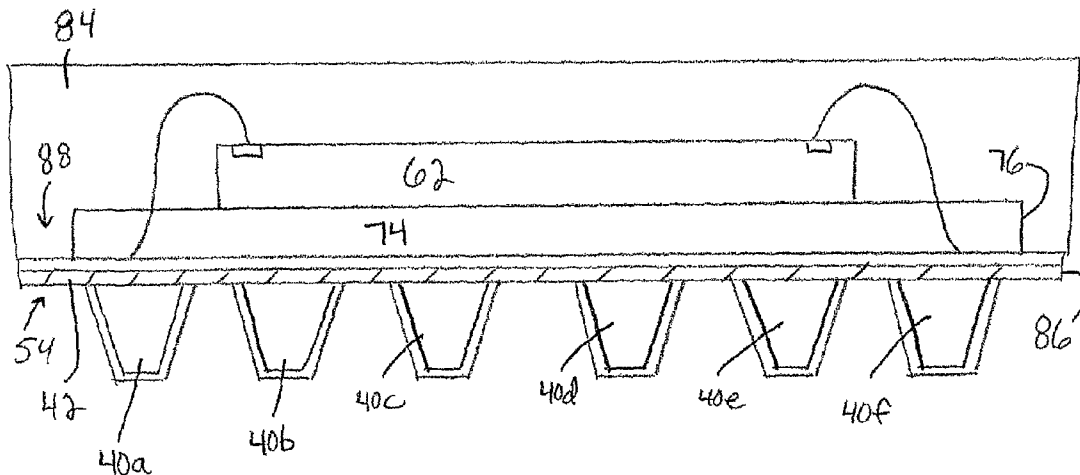
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[Continued on next page]

(54) Title: MICROELECTRONIC PACKAGES AND METHODS THEREFOR



(57) Abstract: A microelectronic package (90) includes a microelectronic element (62) having faces, contacts and an outer perimeter, and a flexible substrate (42) overlying and spaced from a first face of the Microelectronic element (62), an outer region (86) of the flexible substrate (42) extending beyond the outer perimeter of the Microelectronic element (62). The package (90) includes a plurality of conductive posts (40a-40f) exposed at a surface of the flexible substrate (42) and being electrically interconnected with the microelectronic element (62), whereby at least one of the conductive posts (40a-40f) is disposed in the outer region (86) of the flexible substrate (42), and a compliant layer (74) disposed between the first face of the microelectronic element (62) and the flexible substrate (42), wherein the compliant layer (74) overlies the at least one of the conductive posts that is disposed in the outer region (86) of the flexible substrate (42). The package includes a support element (84) in contact with the microelectronic element (62) and the compliant layer (74), whereby the support element 84 overlies the outer region (86) of the flexible substrate (42).

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International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

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USPC: 257/E23.135,678,675,706,713;174/52.4,52.2

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 257/E23.135,678,675,706,713;174/52.4,52.2

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

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

US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; FPRS; and IBM_TDB;

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,340,793 B1 (Yaguchi et al.) 14 March 2000 (14.03.2000), Fig. 1	1 - 4, 6, 7, 9, 10, 12-21, 23-25, 27-31 and 33
X --- Y	US 5,361,491 A (Oomachi et al.) 26 May 1993 (26.05.1993), Fig. 1 US 6,340,793 B1 (Yaguchi et al.) 14 March 2000 (14.03.2000), Fig. 1	----- 1 - 4,6,7,9,10,12-21,23-25,27-31 and 33
X --- Y	US 6,703,705 B2 (Yamazaki et al.) 28 November 2001 (28.11.2001), Fig. 1(a) US 6,340,793 B1 (Yaguchi et al.) 14 March 2000 (14.03.2000), Fig. 1	----- 8 1-4, 6, 7, 9, 10, 12 - 21, 23-25, 27-31 and 33
X --- Y	US 5,285,352 A (Pastore et al.) 15 July 1992 (15.07.1992), Fig. 1	----- 32

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"P" document published prior to the international filing date but later than the priority date claimed

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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X --- Y	US 6,340,793 B1 (Yaguchi et al.) 14 March 2000 (14.03.2000), Fig. 1	1-4,6,7,9,10,12- 21,23-25,27-31 and 33
	US 6,847,109 B2 (Shim) 4 April 2003 (04.04.2003), Fig. 9	----- 34 and 35