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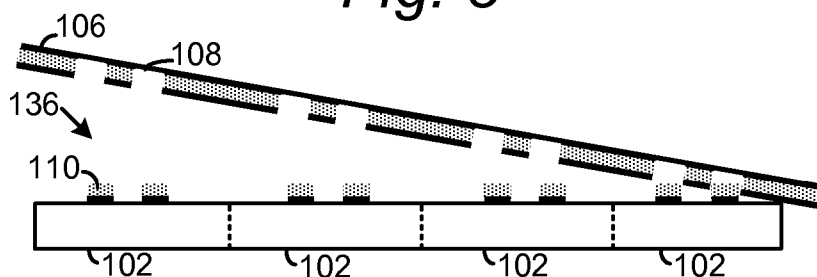
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(54) Title: SEMICONDUCTOR DIE HAVING A REDISTRIBUTION LAYER

Fig. 8



(57) Abstract: A semiconductor device having a redistribution layer, and methods of forming same, are disclosed. After fabrication of semiconductor die on a wafer, a tape assembly is applied onto a surface of the wafer, in contact with the surfaces of each semiconductor die on the wafer. The tape assembly includes a backgrind tape as a base layer, and a film assembly adhered to the backgrind tape. The film assembly in turn includes an adhesive film on which is deposited a thin layer of conductive material.

The redistribution layer pattern is traced into the tape assembly, using for example a laser. Thereafter, the unheated portions of the tape assembly may be removed, leaving the heated redistribution layer pattern on each semiconductor die.

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A. CLASSIFICATION OF SUBJECT MATTER***H01L 23/04(2006.01)i***

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)

IPC H01L 23/04

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 since 1975.

Japanese Utility models and applications for Utility models since 1975.

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

e-KIPASS (KIPO internal); semiconductor, package, redistribution layer

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 6,011,314 A (Leibovitz et al.) 04 Jan. 2000 see abstract, Claims 1~19, Figs. 1~4	11 ~ 17 1~10
A	US 2004-191955 A1 (Joshi et al.) 30 Sep. 2004 see abstract, Claims 1~32, Figs. 1~30	1 ~ 17
A	US 6,897,096 B2 (Cobbley et al.) 24 May 2005 see abstract, Claims 1~44, Figs. 1~14	1 ~ 17
A	US 6,706,557 B2 (Koopmans) 16 Mar. 2004 see abstract, Claims 1~49, Figs. 1~15	1 ~ 17



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04.01.2000

None

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