Title: METHOD FOR FORMING HIGH RESOLUTION ELECTRONIC CIRCUITS

Abstract: A method of forming high resolution electronic circuits (10) on a substrate (12) is provided. The method includes the steps of laminating a dielectric layer (14) on a substrate (12), laser drilling channels (16 and 18) in the dielectric film (14) and the substrate (12), and filling channels (16 and 18) with a filler material (20). Further, a release layer (22) is applied to dielectric film layer (14) and filler material (20), the release layer (22) having an adhesive thereon. Release layer (22) is peeled or otherwise removed from substrate (12), leaving filler material (20) formed and shaped on substrate (12), thus producing a high resolution electronic circuit on substrate (12).
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/14530

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : B32B 31/12, 31/18, 31/26; H01L 21/31, 21/469
US CL : 156/248; 438/759
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. : 156/248, 257, 268, 344; 427/63, 96.1, 101, 102, 118, 271, 272, 282, 289, 290; 438/759, 780, 951; 29/25.01-25.03; 83/875

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 6,378,424 A (HAYAMA et al) 30 April 2002 (30.4.2002), column 7, lines 26-32 and column 8, lines 28-39</td>
<td>5, 6, 11, 12, 16, 17, and 20</td>
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<tr>
<td>Y</td>
<td>US 5,233,157 A (SCHREIBER et al) 03 August 1993 (3.8.1993), column 3, lines 20-35 and column 5, lines 8-17</td>
<td>8, 9, 18, and 19</td>
</tr>
<tr>
<td>Y</td>
<td>US 3,923,697 A (ELLIS) 02 December 1975 (2.12.1975), Col 16, lines 52-64</td>
<td>15</td>
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</tbody>
</table>

Other documents are listed in the continuation of Box C.

See patent family annex.

Date of the actual completion of the international search
27 May 2005 (27.05.2005)

Date of mailing of the international search report
13 JUN 2005

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