The second layer is a release layer, a substrate, or an adhesive layer.

Abstract:
Transfer print circuitry comprises a conductive composition. The conductive composition comprises a first layer, a second layer, and a release layer. The first layer includes a conductive composition, a dielectric layer, and an adherent layer. The second layer comprises a substrate, an adhesive layer, or a release layer. The release layer comprises a release composition, a substrate, or an adhesive layer. The release layer serves as the transfer layer. The transfer layer is applied to the conductive composition, and then the conductive composition is transferred to a substrate.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H05K 3/46 (2015.01)
CPC - H05K 3/46 (2015.12)

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(8) - H05K 3/00, H05K 3/10, H05K 3/12, H05K 3/46 (2015.01)
CPC - H05K 3/00, H05K 3/10, H05K 3/12, H05K 3/46, H05K 2201/026 (2015.12)

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

USPC: 428/32.6, 977/778, 977/840 (Keyword delimited)

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

Orbit, Google Patents, Google

Search terms used: graphene nanotube transfer print laminate circuit

C. DOCUMENTS CONSIDERED TO RF, 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>CN 103303898 A (INSTITUTE OF PHYSICS CHINESE ACADEMY OF SCIENCES) 18 September 2013 (18.09.2013) entire document</td>
<td>9, 20</td>
</tr>
<tr>
<td>L</td>
<td>US 7,754,528b t50 (JIANG et al) 13 July 2010 (13.07.2010) entire document</td>
<td>1-20</td>
</tr>
</tbody>
</table>

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

* Special categories of cited documents.

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

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

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"D" document member of the same patent family

Date of the actual completion of the international search: 04 January 2016

Date of mailing of the international search report: 28 JUL 2016

Name and mailing address of the ISA/Authorized officer

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents Blaine R. Copenheaver

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