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(71) Applicant (for all designated States except US):  
**NANOSYS, INC.** [US/US]; 2625 Hanover Street, Palo Alto, CA 94304 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LEON, Francisco** [US/US]; 777 Addison Avenue, Palo Alto, CA 94301 (US). **LEMMI, Francesco** [IT/US]; 235 W. Red Oak Drive #A, Sunnyvale, CA 94086 (US). **MILLER, Jeffrey** [US/US]; 26699 Snell Lane, Los Altos Hills, CA 94022 (US). **DUTTON, David** [US/US]; 3949 Woodcreek Road, San Jose, CA 95117 (US). **STUMBO, David, P.** [US/US]; 1561 6th Avenue, Belmont, CA 94002 (US).

(74) Agents: **FEATHERSTONE, Donald, J.** et al.; Sterne, Kessler Goldstein & Fox P.L.L.C., 1100 New York Avenue, N.W, Washington, DC 20005-3934 (US).

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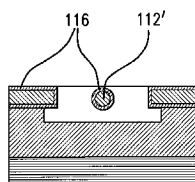
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(54) Title: METHODS FOR FORMATION OF SUBSTRATE ELEMENTS

FIG. 1K



(57) Abstract: The present invention relates to methods of forming substrate elements, including semiconductor elements such as nanowires, transistors and other structures, as well as the elements formed by such methods.

## INTERNATIONAL SEARCH REPORT

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PCT/US 08/13499

| <b>A. CLASSIFICATION OF SUBJECT MATTER</b><br>IPC(8) - H01L 21/00 (2009.01)<br>USPC - 438/942<br>According to International Patent Classification (IPC) or to both national classification and IPC   |   |  |
|--|---|--|
| <b>B. FIELDS SEARCHED</b><br>Minimum documentation searched (classification system followed by classification symbols)<br>USPC - 438/942<br><br>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched<br>USPC - 438/551, 552, 942, 975 (keyword limited - see terms below)<br><br>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)<br>PubWEST(DB=PGPB,USPT,EPAB,JPAB), Google Scholar.<br>Terms - substrate, support layer, remove, mask, region, uncovered, semiconductor, oxide, alloy, photolithography, etch, isotropic, anisotropic, nanowire, transistor, cut, wet, dry, mechanical, sonicating  |   |  |
| <b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>  |   |  |
| Category*  | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.  |
| X  | US 2007/0228583 A1 (Islam et al.) 04 October 2007 (04.10.2007); Abstract; fig. 2A, 2B, 7A, 7D;  | 162-165  |
| Y  | para [0012], [0015], [0016], [0019], [0033], [0036], [0037], [0041]-[0043], [0045], [0048], [0063], [0067], [0069], [0072], [0098], [0102], [0105], [0108], [0111]-[0115], [0117], [0119], [0124], [0129], [0140] | 1-161, 166-188   |
| Y  | US 2006/0079048 A1 (Sampsell) 13 April 2006 (13.04.2006); fig. 9C, 9D, 9E, 10F, 10G; para [0072], [0077], [0078], [0116]  | 1-161, 166-188   |
| Y  | US 5,418,181 A (Ohkubo et al.) 23 May 1995 (23.05.1995); fig. 8, col 4, ln 42-44; col 6, ln 3-9, 30-68; col 7, ln 1-20, 31-37   | 1-161, 166-188   |
| Y  | US 2007/0264481 A1 (DeSimone et al.) 15 November 2007 (15.11.2007); para [0176], [0410]   | 13, 33, 80, 111, 184   |
| Y  | US 2007/0252234 A1 (Kawamata et al) 01 November 2007 (01.11.2007); para [0004], [0034], [0067], [0093], [0094], [0101], [0111], [0143], [0305], [0321], [0322]  | 27, 28, 56, 58-112, 122, 123, 155, 156, 178, 179, 184, 186-188                             |
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