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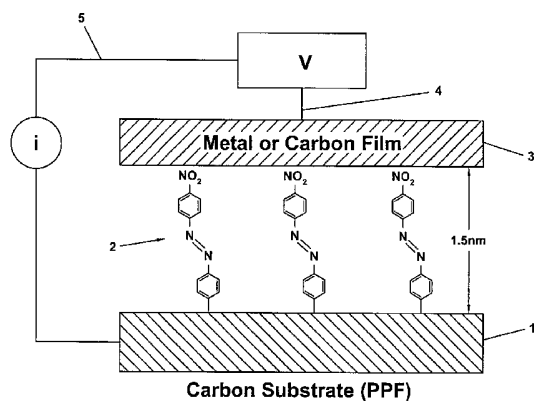
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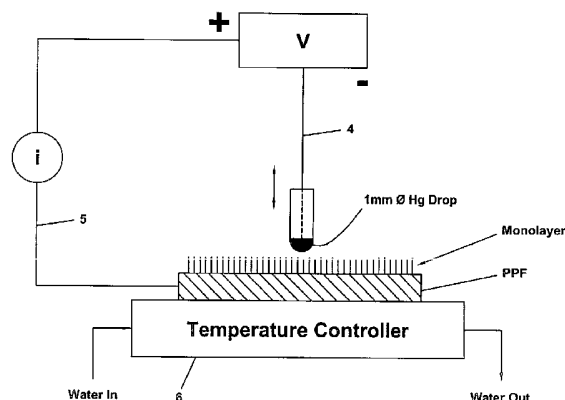
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(54) Title: CHEMICAL MONOLAYER AND MICRO-ELECTRONIC JUNCTIONS AND DEVICES CONTAINING SAME



(57) Abstract: The present invention includes a chemical monolayer construction that comprises: (1) a substrate having a contact surface; and (2) a plurality of substantially parallel molecular units, wherein said molecular units are attached to said substrate so as to be strongly coupled electronically to said substrate, such as though a conjugated bond. The present invention also includes electronic circuit components and devices including a chemical monolayer construction of the present invention.



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/49234

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B32B 9/00, 31/00, 33/00; G02F 1/13; G11B 5/33, 5/127; H01L 29/06, 29/12

US CL : 257/9; 349/1; 360/137; 428/338, 411.1

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. : 257/9; 349/1; 360/137; 428/338, 411.1

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

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

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,828,917 A (WEGNER et al.) 09 May 1989 (09.05.1989), column 2, lines 26-55, column 4, lines 29-46, column 6, lines 7-48, and column 10, line 45-column 11, line 38.	1,2,4-13,15-21,23-26,34,42,44-49
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A		39-41
A	US 5,846,909 A (McDEVITT et al.) 08 December 1998 (08.12.1998), column 2, line 43-column 3, line 20.	1-49
A	US 5,908,692 (HAMERS et al.) 01 June 1999 (01.06.1999), column 2, line 16-column 3, line 15.	1-49



Further documents are listed in the continuation of Box C.



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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	"&" document member of the same patent family

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