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Declarations under Rule 4.17:

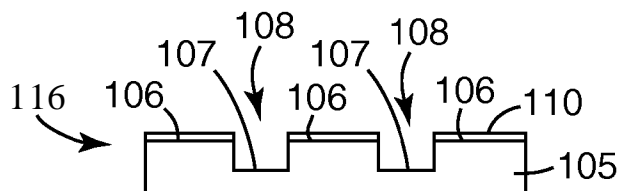
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(U))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(Ui))

Published:

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(88) Date of publication of the international search report:
24 July 2008

(54) Title: METHODS OF PATTERNING A MATERIAL ON POLYMERIC SUBSTRATES



(57) Abstract: A method of patterning a first material (110) on a polymeric substrate (105) is described. The method includes providing a polymeric film substrate (105) having a major surface (104) with a relief pattern including a recessed region (108) and an adjacent raised region (106), depositing a first material (110) onto the major surface (104) of the polymeric film substrate (105) to form a coated polymeric film substrate, forming a layer of a functionalizing material (131) selectively on the raised region (106) of the coated polymeric film substrate to form a functionalized raised region and an unfunctionalized recessed region, and etching the first material (110) from the polymeric substrate selectively from the unfunctionalized recessed region.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. H05K3/00 H05K3/06

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)
H05K H01L G03F

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 247 784 A (NIPPON CMK KK [JP]) 11 March 1992 (1992-03-11)	1-3, 5-12, 16-20
Y	page 6, line 20 - page 8, line 8; figures 1-4	4,13-15
Y	DE 38 32 299 A1 (SCHERING AG [DE]) 22 March 1990 (1990-03-22) column 1, lines 1-22 column 1, line 64 - column 2, line 37	4
Y	US 4 552 615 A (AMENDOLA ALBERT [US] ET AL) 12 November 1985 (1985-11-12) column 3, line 40 - column 4, line 60; figure 3B	13-15

☒ 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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"X¹" 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

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"&" document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International application No
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(^Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	US 2007/049130 A1 (KOJIMA TOSHIYA [JP] ET AL) 1 March 2007 (2007-03-01) the whole document -----	1-20
A	US 4 775 611 A (SULLIVAN DONALD F [US]) 4 October 1988 (1988-10-04) column 4, line 62 - column 5, line 22; figures 2,3,5-8 column 6, line 60 - column 7, line 6 column 7, lines 33-62 -----	1-20
A.	US 2006/003568 A1 (CHOI KYOUNG-SEI [KR] ET AL) 5 January 2006 (2006-01-05) the whole document -----	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2007/081390

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