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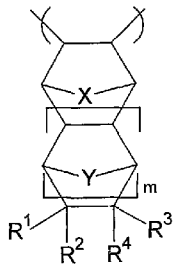
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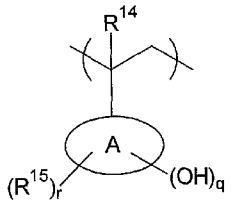
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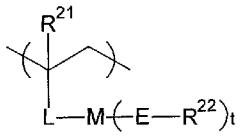
(54) Title: THERMALLY CURED UNDERLAYER FOR LITHOGRAPHIC APPLICATION



(I)



(II)



(III)

(57) Abstract: An etch resistant thermally curable Underlayer composition for use in a multiplayer lithographic process for producing a photolithographic bilayer coated substrate, the composition being a composition of: (a) a polymer comprising repeating units of formula (I), (II) (III) (b) at least one crosslinking agent; (c) at least one thermal acid generator; and (d) at least one solvent.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 08/54498

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - C08C 19/22 (2008.04)
USPC - 525/374
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)
USPC - 525/374

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC : 525/328.8, 374, 375; 526/281

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST(USPT,PGPB,EPAB,JPAB); DialogPRO(Engineering); Google Scholar
Search Terms: resist/photoresist, crosslinker, solvent, substrate, curing, chemically amplified resist

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,830,870 B2 (Malik et al.). 14 Dec 2004 (14.12.2004), entire document especially col 3, ln 1-55, col 5, ln 15-20, col 3, ln 1-20, col 4, ln 1-25, col 9, ln 60, col 8, ln 15-24, col 5, ln 25-30, col 8, ln 45-48, col 2, ln 55-67 and col 1, ln 42-55; Example 1	1-24
A	US 2004/0242798 A1 (Sounik et al.) 02 Dec 2004 (02.12.2004), entire document	1-24
A	US 2002/0197558 A1 (Ferreira et al.) 26 Dec 2002 (26.12.2002), entire document	1-24

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"A" document defining the general state of the art which is not considered to be of particular relevance
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"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
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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