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(54) Title: RESIST COMPOSITIONS WITH POLYMERS HAVING PENDANT GROUPS CONTAINING PLURAL ACID LABILE MOIETIES

(57) Abstract: Acid-catalyzed positive resist compositions which are imageable with 193nm radiation and/or possibly other radiation and are developable to form resist structures of improved development characteristics and improved etch resistance are enabled by the use of resist compositions containing imaging polymer having a monomer with a pendant group containing plural acid labile moieties. Preferred pendant groups containing plural acid labile moieties are characterized by the presence of a bulky end group.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/12885

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : G03F 7/004, 7/32, 7/38, 7/40
US CL : 430/270.1, 326
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. : 430/270.1, 326
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 practicable, search terms used)
USPAT, EPO, JPO, DERWENT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P --- Y,P	US 6,277,538 B1 (CHOI et al) 21 August 2001, col. 1, lines 50-67, col. 2, lines 1-44, col. 8, example 11.	1,2,4,5,7,9,10 ----- 6
X,E --- Y,E	US 6,391,518 B1 (JUNG et al) 21 May 2002, col. 2, lines 40-49, examples 2-10, col. 14, example 14.	1,2,4,5,7,9,10 ----- 6
Y	US 6,124,074 A (VARANASI et al) 26 September 2000, col. 3, lines 35-46, formula I, col. 4, formulas II,III, col. 9, col. 10, lines 1-10.	1,2,5-10

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

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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		

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