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(54) Title: ANTIREFLECTIVE COMPOSITIONS FOR PHOTORESISTS

(57) Abstract: The present invention relates to a coating solution comprising a polymer obtained by reacting a glycoluril compound with at least one reactive compound containing at least one hydroxy group and/or at least one acid group, and further where the polymer is soluble in an organic solvent. The invention also relates to a process for imaging a photoresist coated over such a coating composition and to a polymer for the coating composition.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

G03F7/09

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)

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, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	P. TREFONAS ET AL.: "Organic antireflective coatings for 193 nm lithography" PROCEEDINGS OF THE SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, vol. 3678, March 1999 (1999-03), pages 2-12, XP002369064 USA page 3; figure 2 page 5; table 1 page 7; figure 4 page 10	1-26
X	EP 0 987 600 A (SHIPLEY COMPANY LLC) 22 March 2000 (2000-03-22) page 12, paragraph 79; examples 14,15; table 1 ----- -/--	1-26

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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- *&* document member of the same patent family

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>S. IWASA ET AL.: "Novel negative photoresist based on polar alicyclic polymers for ArF excimer laser lithography"</p> <p>PROCEEDINGS OF THE SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING,</p> <p>vol. 3333, February 1998 (1998-02), pages 417-424, XP002369065</p> <p>USA</p> <p>page 418; figures 1,2,4,5</p> <p>page 423; figure 14</p> <p style="text-align: center;">-----</p>	<p>1-4,7,8,</p> <p>11,14,</p> <p>15,26</p>

INTERNATIONAL SEARCH REPORT

Information on patent family members

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