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(71) Applicant: KIMBERLY-CLARK WORLDWIDE,
INC. [US/US]; 401 N. Lake Street, Neenah, WI 54956
(US).

(72) Inventors: BRANHAM, Kelly, D.; 6661 Cross Road,
Winneconne, WI 54986 (US). CHANG, Yihua; 14300
N.W. Greenwood Drive, Portland, OR 97229 (US).
LANG, Frederick, J.; 1541 Whitetail Drive, Neenah,
WI 54956 (US). MCBRIDE, Erin; 333 Twelfth Street,
Neenah, WI 54956 (US). BUNYARD, Clay; 1665 Delta
Drive, Neenah, WI 54956 (US).

(74) Agents: RICHARDS, Robert, E.; Kilpatrick Stockton
LLP, Suite 2800, 1100 Peachtree Street, Atlanta, GA 30309
et al. (US).

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(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG).

Declarations under Rule 4.17:

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

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



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(54) Title: ION-SENSITIVE CATIONIC POLYMERS AND FIBROUS ITEMS USING SAME

(57) Abstract: The present invention is directed to triggerable, water-dispersible cationic polymers. The present invention is also directed to a method of making triggerable, water-dispersible cationic polymers and their applicability as binder compositions. The present invention is further directed to fiber-containing fabrics and webs comprising triggerable, water-dispersible binder compositions and their applicability in water-dispersible personal care products, such as wet wipes.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 02/04943

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08F220/34 D21H19/20 B05D7/24 D21H17/45 D04H1/64
C11D17/04

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)
IPC 7 C09D C08L C08F D21H B05D D04H C11D

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)

PAJ, EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 04 309510 A (SUMITOMO CHEM CO LTD) 2 November 1992 (1992-11-02) the whole document	1-5,9-16
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "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

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" 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
- "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
- "8" document member of the same patent family

Date of the actual completion of the international search

9 January 2003

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Schueler, D

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 02/04943

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 199954 Derwent Publications Ltd., London, GB; Class A13, AN 1999-629846 XP002207800 & JP 11 279983 A (ARAKAWA CHEM IND LTD), 12 October 1999 (1999-10-12) abstract ---	1-6,9
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 02/04943

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims: it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-6 9-16

A polymer comprising a cationic monomer, a hydrophobic comonomer; which is triggerable; and fibrous material treated with said triggerable polymer

2. Claims: 7-8 17-41

A polymer comprising a cationic monomer, a hydrophobic comonomer; which is not triggerable; and fibrous material treated with said non-triggerable polymer

INTERNATIONAL SEARCH REPORT

 International Application No
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