The compositions described are particularly useful for the treatment of textile fabrics to endow them with advantageous wear properties, in particular enhanced hydrophilicity. The compositions comprise urea, thiourea or melamine derivatives, compounds comprising polyoxyalkylene groups and optionally an alcohol, and these components may optionally also have been reacted with each other.
INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2015/067332

A. CLASSIFICATION OF SUBJECT MATTER
INV. D06M13/144 D06M13/17 D06M13/224 D06M13/352 D06M13/432
D06M15/427 D06M15/53 D06M13/372 D06M15/423 D06M15/647

ADD.
According to International Patent Classification (IPC) and/or both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
D06M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database consulted during the international search (name of data base and, where possible, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 5 242 463 A (BLANCHARD EUGENE J [US] ET AL) 7 September 1993 (1993-09-07) col umn 5, lines 31-43; claims 1,3,4</td>
<td>1-16</td>
</tr>
</tbody>
</table>

[X] Further documents are listed in the continuation of Box C.  
[X] 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
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) one of which is cited to establish the relevant 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

"I" later document published after the international filing date or priority date but 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 skilled person in the art

"E" document member of the same patent family

Date of the actual completion of the international search: 11 April 2016
Date of mailing of the international search report: 18/04/2016

Name and mailing address of the ISA:
European Patent Office, P.B. 5018 Patentlaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016

Authorized officer:
Bias, Valérie
<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 3 620 821 A (JOHNSON GORDON C) 16 November 1971 (1971-11-16) col umn 5, l ines 1-17, 54-61 col umn 6, l ine 4 - col umn 7, l ine 20; cl aims</td>
<td>1-16</td>
</tr>
<tr>
<td>Y</td>
<td>US 5 252 233 A (CZECH ANNA M [US]) 12 October 1993 (1993-10-12) col umn 1, l ines 13-18; examp le 1; tabl e 1</td>
<td>1-16</td>
</tr>
<tr>
<td>A</td>
<td>GB 1 252 744 A (CHEMISCHE FABRIK PFERSEE GMBH) 10 November 1971 (1971-11-10) page 1, l ines 34-56 page 2, l ines 109-130; cl aims; exampl es</td>
<td>1-16</td>
</tr>
<tr>
<td>A</td>
<td>EP 1 947 233 A1 (BASF SE [DE]) 23 July 2008 (2008-07-23) paragraphs [0001], [0043], [0047], [0051]; cl aims</td>
<td>1-16</td>
</tr>
</tbody>
</table>
INTERNATIONAL SEARCH REPORT

Box No. II  Observations where certain claims were found unsearchable (Continuation of item 2 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 No. III  Observations where unity of invention is lacking (Continuation of item 3 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 fees, this Authority did not invite payment of additional fees.

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.:

   I-16(partially)

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 and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☒ No protest accompanied the payment of additional search fees.

Form PCT/ISA/21 0 (continuation of first sheet (2)) (April 2005)
This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: l-16 (partially)
   Compositions comprising compounds of formula (II) where X is 0 and compounds of formula (VII), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

2. Claims: Incompletely; l-16 (partially)
   Compositions comprising compounds of formula (II) where X is S and compounds of formula (VII), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.
   Compounds of formula (XII), which are corresponding to compounds of formula (II) where X is S.

3. Claims: l-16 (partially)
   Compositions comprising compounds of formula (II) where X is S and compounds of formula (VIII), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

4. Claims: l-16 (partially)
   Compositions comprising compounds of formula (II) where X is S and compounds of formula (IX), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

5. Claims: l-16 (partially)
   Compositions comprising compounds of formula (II) where X is S and compounds of formula (X), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

6. Claims: l-16 (partially)
   Compositions comprising compounds of formula (II) where X is S and compounds of formula (XI) or (Xla), and optionally an alcohol of formula (VI), process for its preparation and their use for the treatment of textile materials.

7. Claims: l-16 (partially)
Compositions comprising compounds of formula (II) where X is 0 and compounds of formula (VIII), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

---

8. claims: l-16(partially)

Compositions comprising compounds of formula (II) where X is 0 and compounds of formula (IX), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

---

9. claims: l-16(partially)

Compositions comprising compounds of formula (II) where X is 0 and compounds of formula (X), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

---

10. claims: l-16(partially)

Compositions comprising compounds of formula (II) where X is 0 and compounds of formula (XI) or (Xla), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

---

11. claims: l-16(partially)

Compositions comprising compounds of formula (III) and compounds of formula (VII), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

---

12. claims: l-16(partially)

Compositions comprising compounds of formula (III) and compounds of formula (VIII), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

---

13. claims: l-16(partially)

Compositions comprising compounds of formula (III) and compounds of formula (IX), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

---

14. claims: l-16(partially)
Compositions comprising compounds of formula (III) and compounds of formula (X), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

15. Claims: l-16(partially)

Compositions comprising compounds of formula (III) and compounds of formula (XI) or (XIIa), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

16. Claims: l-16(partially)

Compositions comprising compounds of formula (IV) and compounds of formula (VII), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

17. Claims: l-16(partially)

Compositions comprising compounds of formula (IV) and compounds of formula (VIII), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

18. Claims: l-16(partially)

Compositions comprising compounds of formula (IV) and compounds of formula (IX), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

19. Claims: l-16(partially)

Compositions comprising compounds of formula (IV) and compounds of formula (X), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

20. Claims: l-16(partially)

Compositions comprising compounds of formula (IV) and compounds of formula (XI) or (XIIa), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.
21. **claims**: l-16(partially)

Compositions comprising compounds of formula (V) and compounds of formula (VII), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

---

22. **claims**: l-16(partially)

Compositions comprising compounds of formula (V) and compounds of formula (VIII), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

---

23. **claims**: l-16(partially)

Compositions comprising compounds of formula (V) and compounds of formula (IX), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

---

24. **claims**: l-16(partially)

Compositions comprising compounds of formula (V) and compounds of formula (X), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

---

25. **claims**: l-16(partially)

Compositions comprising compounds of formula (V) and compounds of formula (XI) or (XIa), and optionally an alcohol of formula (VI), process for their preparation and their use for the treatment of textile materials.

---

26. **claim**: 17

Use of the composition as disclosed in claim 1 as phase transfer catalyst.

---

27. **claim**: 18

Use of the composition as disclosed in claim 1 as additive for adhesives.

---
<table>
<thead>
<tr>
<th>Patent document cited in search report</th>
<th>Publication date</th>
<th>Patent family member(s)</th>
<th>Publication date</th>
</tr>
</thead>
<tbody>
<tr>
<td>US 5614591</td>
<td>25-03-1997</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>US 6102973</td>
<td>15-08-2000</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>US 5242463</td>
<td>07-09-1993</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CA 2094357 AI</td>
<td>08-11-1993</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DE 69300387 DI</td>
<td>28-09-1995</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DE 69300387 T2</td>
<td>08-02-1996</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EP 0569266 AI</td>
<td>10-11-1993</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ES 2076052 T3</td>
<td>16-10-1995</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FR 2690933 AI</td>
<td>12-11-1993</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JP H0633035 A</td>
<td>08-02-1994</td>
</tr>
<tr>
<td></td>
<td></td>
<td>US 5358535 A</td>
<td>25-10-1994</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DE 1947267 AI</td>
<td>26-03-1970</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FR 2018298 AI</td>
<td>29-05-1970</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NL 6913642 A</td>
<td>20-03-1970</td>
</tr>
<tr>
<td></td>
<td></td>
<td>US 3620821 A</td>
<td>16-11-1971</td>
</tr>
<tr>
<td>US 5252233</td>
<td>12-10-1993</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>GB 1252744</td>
<td>10-11-1971</td>
<td>CH 1702468 D</td>
<td>11-04-2016</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DE 1594984 BI</td>
<td>03-12-1970</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FR 1595747 A</td>
<td>15-06-1970</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GB 1252744 A</td>
<td>10-11-1971</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NL 6814074 A</td>
<td>04-06-1969</td>
</tr>
<tr>
<td>EP 1947233</td>
<td>23-07-2008</td>
<td>NONE</td>
<td></td>
</tr>
</tbody>
</table>