Title: SILOXANE COMPOSITE-BASED LIGHT-WEIGHT OPTICAL LENSES

Abstract: Disclosed is a process of preparing a moulded article, comprising 1) hydrolysing a) at least one silane having one non-hydrolysable organic group, and b) at least one compound selected from b1) a silane having two non-hydrolysable organic groups, and b2) a hydrolysable polysiloxane, or a mixture thereof, and c) optionally at least one silane having no non-hydrolysable organic group, to prepare a composite composition comprising a hydrolysate or condensate, 2) placing the composite composition in a mould, 3) curing the composite composition to increase the degree of condensation, 4) removing the moulded article from the mould, and 5) heat treating the moulded article at a temperature of at least 100°C. The moulded article is preferably an optical lens which may be used for automobile headlights.
# A. CLASSIFICATION OF SUBJECT MATTER

**INV. C08G77/06 C08L83/04**

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): C08G C08L

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

# 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>X</td>
<td>WO 2007/121972 A (EPG ENGINEERED NANO PRODUCTS GE [DE]; AKARSU MURAT [DE]; SCHMIDT HELMUT) 1 November 2007 (2007-11-01) examples 1,3-6</td>
<td>19,20,22</td>
</tr>
</tbody>
</table>

# D. Further documents are listed in the continuation of Box C

X See patent family annex

<table>
<thead>
<tr>
<th>Special categories of cited documents</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>'A' document defining the general state of the art which is not considered to be of particular relevance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>'E' earlier document but published on or after the international filing date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>'I' document which may throw doubts on propriety claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>'O' document referring to an oral disclosure, use exhibition or other means</td>
<td></td>
<td></td>
</tr>
<tr>
<td>'P' document published prior to the international filing date but later than the priority date claimed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Date of the actual completion of the international search: 4 September 2009

Date of mailing of the international search report: 16/09/2009

Authorized officer: Koitz, Roderich

European Patent Office, P B 5816 Patentlaan 2 NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Fax (+31-70) 340-3016

Form PCT/ISA/210 (second sheet) (April 2005)
<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></td>
<td></td>
<td>CN 101432239 A</td>
<td>13-05-2009</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DE 102006018938 A1</td>
<td>25-10-2007</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EP 2010461 A1</td>
<td>07-01-2009</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FR 2413415 A1</td>
<td>27-07-1979</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GB 2018803 A</td>
<td>24-10-1979</td>
</tr>
</tbody>
</table>