Title: RADIATION CURABLE AND JETTABLE INK COMPOSITIONS

Abstract: Radiation curable and jettable ink compositions comprise ethylenically unsaturated oligomer and an ethylenically unsaturated monofunctional monomer. The compositions may optionally include additional ethylenically unsaturated polyfunctional component and/or chain transfer agent. The compositions have a viscosity at 25°C of not greater than about 70 cPs and are radiation curable to form a cured ink having an elongation of at least 150%.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
   IPC(8) - C08J 3/28 (2008.01)
   USPC - 522/113; 347/105
   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)
   USPC: 522/113; 347/105

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
   USPC: all remaining classifications

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
   WEST and Google Patents, Scholar, and Web: radiation curable ink, elongation, viscosity, acid number, molecular weight, acrylate, oligomer

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>WO 2006/085992 A2 (EDISON et al.) 17 August 2006 (17.08.2006), pg. 1, In 31 - pg. 2, In 3; pg. 4, In 27-28; pg. 6, In 14 - pg. 7, In 19; pg. 7, In 24-31; pg. 9, In 1-3; pg. 9, In 18-21; pg. 11, In 7-11; pg. 12, In 5-6; pg. 14, In 7-12; pg. 18, In 1-2; pg. 18, In 23-29; pg. 19, In 31 - pg. 20, In 8; pg. 20, In 25-26.</td>
<td>1-23</td>
</tr>
<tr>
<td>Y</td>
<td>US 2003/0158283 A1 (YLITALO et al.) 21 August 2003 (21.08.2003), para [0046], [0054], [0059], [0064].</td>
<td>1-23</td>
</tr>
<tr>
<td>Y</td>
<td>US 4,358,476 A (ZIMMER et al.) 9 November 1982 (09.11.1982), col. 10, In 56-64.</td>
<td>18</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.

* 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) 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
"&" document member of the same patent family

Date of the actual completion of the international search
8 March 2008 (08.03.2008)

Date of mailing of the international search report
09 MAY 2008

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PCT OSP: 571-272-7774

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