(54) Title: HARDENER FOR EPOXY OF POLYOLS AND N-CONTAINING HARDENER

(57) Abstract: Hardeners for epoxy resins which cure rapidly at lower temperatures and exhibit longer latency and lower exotherm than conventional epoxy resin hardeners comprise a first polyol having at least two reactive groups consisting of phenolic hydroxyl groups, secondary alcohol groups or a combination thereof; a second polyol with at least two reactive groups comprising methylol groups, secondary alcohol groups or a combination thereof; and mixtures of polyamines and tertiary amines, at least one tertiary amine, imidazole or dicyandiamide.
A. CLASSIFICATION OF SUBJECT MATTER
   IPC(7) : C08L 61/34, 61/10, 63/00, 63/02
   US CL. : 525/486, 510, 523, 524
   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)
   U.S. : 525/486, 510, 523, 524

   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 practicable, search terms used)
   WEST: All databases. CAS ONLINE: Files REGISTRY and CAPLUS.

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>EP 118,270 A2 (CELANESE) 09 December 1984 (12.09.84), page 5, lines 22-24; page</td>
<td>1-4, 8, 9, 13-16 and</td>
</tr>
<tr>
<td></td>
<td>8, Example 1, lines 9-10 and page 14, Example 6 and page 16, Example 7.</td>
<td>21-26</td>
</tr>
<tr>
<td>X</td>
<td>SU 1,645,276 A (KASMINSKAYA) 30 April 1991 (30.04.91), see abstract.</td>
<td>1-4, 8, 9, 13, 14, 16</td>
</tr>
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<td></td>
<td></td>
<td>and 20-26</td>
</tr>
<tr>
<td>A</td>
<td>CA 2,099,230 A (GARDNER) 25 July 1993 (25.07.93), see abstract.</td>
<td>1-5 and 21-26</td>
</tr>
</tbody>
</table>

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

INTERNATIONAL SEARCH REPORT

Date of the actual completion of the international search
15 April 2002 (15.04.2002)

Name and mailing address of the ISA/US Patent and Trademarks
Commissioner Washington, D.C. 20231
Facsimile No. (703)305-2230

Date of mailing of the international search report
14 May 2002

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Form PCT/ISA/210 (second sheet) (July 1998)
Continuation of Item 4 of the first sheet:
The title does not meet the requirements of PCT Rule 4.3 because it does not precisely convey the invention. The following new title is presented:
NEW TITLE: HARDENER FOR EPOXY OF POLYOLS AND N-CONTAINING HARDENER.