(57) Abstract: Structural damage repair elements including inserts and a structural damage repair kit is provided. The structural damage repair elements typically include two or more layers of materials having an adhesive (9) therebetween that are subsequently compressed together. The structural damage repair kit includes a chemical molding agent, an optional jig, one or more structural damage repair elements and a sealant. Both hollow (14, 15) and solid elongated objects (1), as well as relatively flat, curved objects may be repaired with the kit. The structural damage repair elements include rods (12), wafers (10), and/or adhesive saturated inserts (9).
Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
8 September 2006

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.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
- IPC: E04C 3/30(2006.01)
  E04B 1/00(2006.01)
- USPC: 52/726.4, 736.1, 296, 514, 741.14
  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.: 52/726.4, 736.1, 296, 514, 741.14, 297, 745.17, 726.1, 726.4; 248/544, 545, 546

- 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)

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 6,742,314 A (YOUNG) 01 June 2004, see entire document</td>
<td>1-2</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,175,973 A (OWEN et al) 05 January 1993, See entire document.</td>
<td>1-2</td>
</tr>
<tr>
<td>A</td>
<td>US 5,326,410 (BOYLES) 05 July 1994, See entire document.</td>
<td>1-28</td>
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</table>

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

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Date of the actual completion of the international search: 11 June 2006 (11.06.2006)
Date of mailing of the international search report: 18 JUL 2006

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