Title: HIGH-DENSITY OPTICAL FIBER SLOTTED CORES AND SLOTTED CORE CABLES

Abstract: Disclosed is a slotted core for a fiber optic cable having a plurality of slots for carrying a plurality of optical fibers. The slotted core has a plurality of first slots having a first slot depth and a plurality of second slots having a second slot depth. The second slot depth is greater than the first slot depth. In one embodiment, each of the first and second plurality of slots is capable of retaining at least one optical fiber and the second plurality of slots is alternately disposed between the first slots. Additionally, the slotted core may further include a cable jacket or other cable components, thereby forming a fiber optic cable having an optical fiber packing density of about 1.8 optical fibers/mm² or greater.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
   IPC: G02B 6/44(2006.01)
   USPC: 385/102,105

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)
   U.S.: 385/102,105

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>X</td>
<td>US 4,997,257 (Spedding) 5 March 1991 (05.03.1991), Fig. 1.</td>
<td>1-2, 13-14</td>
</tr>
<tr>
<td>X</td>
<td>US 6,636,673 B2 (REGISTER, III et al.), Fig. 1.</td>
<td>1-2, 4, 13-14, 16</td>
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<td>Y</td>
<td>US 2001/0000139 A1 (SUMMERS et al.) 05 April 2001 (05.04.2001), Fig. 1-4 and paragraph [0019].</td>
<td>5, 15</td>
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</tbody>
</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
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