METHODS AND DEVICES FOR SHIPPING SOLAR MODULES

Abstract: Methods and devices are provided for improved solar module shipping techniques. In one embodiment, the method includes stacking a plurality of glass-based photovoltaic modules in the shipping container, wherein the modules are mounted in a surface supported configuration wherein at least 50% of a top substrate of the modules is a weight bearing surface, transferring weight through cells in the module to a bottom substrate of one of the modules, which transfers weight to a surface of an underlying module.
A. CLASSIFICATION OF SUBJECT MATTER

F24J 2/52(2006.01)i, H01L 31/042(2006.01)i

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)

IPC 8: F24J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korea Utility Models and applications for utility models since 1975

Japanese Utility Models and applications for utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

ekOMPASS(KIPO internal) & Keywords: "glass", "stack", and "shipping"

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>A</td>
<td>US 5909808 A1 (BARTHOLOMEW; DAVID M.) 08 JUN 1999 See abstract; fig.5 and its corresponding explanations</td>
<td>22-26</td>
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<tr>
<td>A</td>
<td>US 5174448 A1 (FLAIG; VICTOR L.) 29 DEC 1992 See abstract; fig.6 and its corresponding explanations</td>
<td>22-26</td>
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<tr>
<td>A</td>
<td>US 4287990 A1 (KURICK; JAMES F.) 08 SEP 1981 See abstract; fig.1 and its corresponding explanations</td>
<td>22-26</td>
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</table>

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

* Special categories of cited documents:

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Date of the actual completion of the international search

01 DECEMBER 2009 (01.12.2009)

Date of mailing of the international search report

01 DECEMBER 2009 (01.12.2009)

Name and mailing address of the ISA/KR

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Telephone No. 82-42-481-8361

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<tr>
<td>US 5174448 A1</td>
<td>29.12.1992</td>
<td>None</td>
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<td>US 4287990 A1</td>
<td>08.09.1981</td>
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