Lightweight Modular Cementitious Panel/Tile for Use in Construction

A lightweight cementitious panel/tile is provided with increased bending stiffness and less weight than conventional construction panels. The cementitious panel is constructed of a cementitious surface (which may be reinforced with wood fiber or other materials) supported by an integrated stiffener grid on the underside to absorb stresses and loads.
# INTERNATIONAL SEARCH REPORT

## A. CLASSIFICATION OF SUBJECFT MATTER

<table>
<thead>
<tr>
<th>IPC(7)</th>
<th>E 04 C 2/32</th>
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<tr>
<td>US CL</td>
<td>52/630</td>
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</table>

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.          | 52/783.11, 796.1, 630, 596 |

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)

Please See Continuation Sheet

## 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>
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<tbody>
<tr>
<td>Y</td>
<td>US 3,696,578 A (SWEINSEN et al) 10 October 1972, see entire document</td>
<td>1,2,5,6,7,9,10,11,13,1</td>
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<td>Y</td>
<td>US 5,927,034 A (COLE) 27 July 1999, see entire document</td>
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<td>A</td>
<td>US 6,155,013 A (KIM) 05 December 2000</td>
<td>4,16,17,19,20,22,23</td>
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<td>A</td>
<td>US 4,856,256 A (TOKUZO) 15 August 1989</td>
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</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 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

11 March 2004 (11.03.2004)

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230

Date of mailing of the international search report

21 APR 2004

[Signature]

Telephone No. 703-308-1113

Form PCT/ISA/210 (second sheet) (July 1998)
Continuation of B. FIELDS SEARCHED Item 3:
USPAT
tile, floor, cement, concrete, fiber, gypsum, wood,