A thermally conductive stripline RF transmission cable has a flat inner conductor surrounded by a dielectric layer that is surrounded by an outer conductor. The dielectric layer may include a base polymer and a thermally conductive material to increase a thermal conductivity of the cable. A thermal conductivity of the dielectric layer may be increased between a midsection of the inner conductor and the outer conductor. A jacket may surround the outer conductor, the jacket including a base polymer and a thermally conductive material. Additional conductors may be applied within the dielectric layer and/or in the jacket, proximate the outer conductor.

Declarations under Rule 4.17:
— as to the identity of the inventor (Rule 4.17(i))
— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(III))

Published:
— with international search report (Art. 21(3))
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report: 10 May 2013
A. CLASSIFICATION OF SUBJECT MATTER

H01B 7/42(2006.01)i, H01B 11/00(2006.01)1

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)

H01B 7/42; H01B 11/18; H01B 9/02; H05K 1/00; H01B 17/26; H01P 3/08

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

 Korean utility models and applications for utility models
 Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: RF transmission cable, inner conductor, outer conductor, thermally conductive material

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 6093886 A (BAZIZI; KAMEL ABDEL et al.) 25 July 2000</td>
<td>8</td>
</tr>
<tr>
<td>A</td>
<td>See abstract; column 3, lines 5-20; and figure I</td>
<td>1-7, 9-20</td>
</tr>
<tr>
<td>Y</td>
<td>US 20101006682 A1 (NONEN HIDEKI et al.) 05 May 2011</td>
<td>8</td>
</tr>
<tr>
<td>A</td>
<td>See abstract; paragraphs [0058], [0091], [0095]; and figure I</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>US 5068632 A (CHAMPEAU; ANDRE) 26 November 1991</td>
<td>1-20</td>
</tr>
<tr>
<td>A</td>
<td>See abstract; column 4, lines 1-40; and figures 1, 2</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>WO 2006127371 A1 (JM INNOVATIVE PROPERTIES COMPANY) 30 November 2006</td>
<td>1-20</td>
</tr>
<tr>
<td>A</td>
<td>See abstract; page 3, lines 22-32, page 6, lines 1-32, page 8, lines 27-32; and figures 3-5</td>
<td></td>
</tr>
</tbody>
</table>

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

* 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 but 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 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

19 FEBRUARY 2013 (19.02.2013)

Date of mailing of the international search report

04 MARCH 2013 (04.03.2013)

Name and mailing address of the ISA/KR

FacSimile No. 82-42-472-7140

Authorized officer

KIM, Tae Hoon
Telephone No. 82-42-481-8407

Form PCT/ISA/210 (second sheet) (July 2009)
<table>
<thead>
<tr>
<th>Patent document cited in search report</th>
<th>Publication date</th>
<th>Patent family member(s)</th>
<th>Publication date</th>
</tr>
</thead>
<tbody>
<tr>
<td>US 20110100682 A</td>
<td>05.05.2011</td>
<td>CN 102054544 A</td>
<td>11.05.2011</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JP 2011-096574 A</td>
<td>12.05.2011</td>
</tr>
</tbody>
</table>