Abstract: The present invention provides, an antenna test device to test antenna efficiency. The test device includes a cavity formed by at least one conductive sidewall. The cavity contains at least one tuning probe, at least one movable portion, or a combination thereof. The tuning probes and/or movable portion help inhibit the antenna under test from having faulty measurements due to anti-resonance or coupling.
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

**International application No.**

PCT/US05/13787

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**A. CLASSIFICATION OF SUBJECT MATTER**

**IPC:**
- G01R 29/10 (2006.01), 15/00 (2006.01); H04B 17/00 (2006.01); G06F 19/00 (2006.01), 11/30 (2006.01), 15/00 (2006.01); G21C 17/00 (2006.01)

**USPC:**
- 343/703; 455/67.11, 67.12; 702/57, 182

According to International Patent Classification (IPC) or to both national classification and IPC

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**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)
- U.S.: 343/703; 455/67.11, 67.12; 702/57, 182

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

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**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>JP 06-160450 A (ICOM INC) 07 June 1994, see figs. 1-2.</td>
<td>1-7, 12-14, 25-27</td>
</tr>
<tr>
<td>A</td>
<td>US 6,448,787 B1 (OGLESBY) 10 September 2002, see entire document.</td>
<td>1-27</td>
</tr>
<tr>
<td>A</td>
<td>US 5,532,704 A (RUELLE) 02 July 1996, see entire document.</td>
<td>1-27</td>
</tr>
</tbody>
</table>

**Further documents are listed in the continuation of Box C.**

- **"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 novel or 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

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**Date of the actual completion of the international search**

11 August 2006 (11.08.2006)

**Date of mailing of the international search report**

08 SEP 2006

**Name and mailing address of the ISA/US**

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TOM DUNN

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Form PCT/ISA/210 (second sheet) (April 2005)
Continuation of B. FIELDS SEARCHED Item 3:
US-PGPUB; USPAT; EPO; JPO; DERWENT: antenna, test, measur, power, feed, cavity, chamber, housing, enclosure, prob