Abstract: A return loss bridge circuit for testing a balanced test impedance includes an input connector and a reflection connector. The input connector and the reflection connector are electrically connected to an output of a network analyzer and an input of the network analyzer, respectively. The return loss bridge circuit further includes a reference impedance connected between the input and reflection connectors, first and second transformers and a common mode choke. The common mode choke is electrically connectable to the balanced test impedance.
**INTERNATIONAL SEARCH REPORT**

**A CLASSIFICATION OF SUBJECT MATTER**

IPC(8) - G01R 17/10, 27/04 (2008.01)

USPC - 324/648, 725

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)

USPC 324/648, 725

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

USPC 324/602, 647, 327/84, 92, 448

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

Electronic Databases Searched: PubWEST/(USPT,PGP8, EPAB,JPAB), USPTO, Google, Answers.com, Google Scholar

Search Terms Used: Return, loss, bridge, circuit, balanced, test, impedance, input, connector, analyzer, reflection, signal, conductor, network, end, winding, transformed, variable, capacitor, resistor, inductor, input

**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>
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</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 2005/0286271 A1 (VINCIARELLI) 29 December 2005 (29 12 2005) para [0004], [0009], [0014], [0017], [0019], [0023]-[0027], [0098], [0100], [0101], [0106], [0122], [0123], [0132], [0146], [0147], [0153], [0158], [0160], [0176], [0199], [0215] and [0245), See Fig 5</td>
<td>1-17</td>
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<td>A</td>
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<td>A</td>
<td>US 6,556,937 B1 (BYERS) 29 April 2003 (29 04 2003)</td>
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Date of the actual completion of the international search

12 January 2008 (12 01 2008)

Date of mailing of the international search report

19 JUN 2008

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