Abstract: An embodiment of a transmitter system (200) includes a power amplifier (206) receiving a supply voltage (254) and a supply current (234) from a power control/current detection circuit (208). The transmitter system further includes a power correction module (224) configured to sample the supply current and to cause a change in a control voltage (242), which corrects the supply voltage in response to a change in the load impedance. The supply voltage is corrected to cause the power amplifier to have a substantially constant output power. The power correction module is further configured to output a corrected peak voltage (232) determined by an average value of the supply current. The transmitter system further includes a predistortion module (216) configured to determine the control voltage from a product of the corrected peak voltage and an amplitude modulation component (238) and to output the control voltage to the power control/current detection circuit.
INTERNATIONAL SEARCH REPORT

International application No. PCT/US07/18802

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04L 25/00 (2008.01)
USPC - 375/279

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) - H04L 25/00 (2008.01)
USPC - 375/279

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)
PatBase System, Google Patents, Google

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 6,064,267 A1 (LEWIN) 16 May 2000 (16.05.2000) entire document</td>
<td>11-12</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.

Date of the actual completion of the international search: 11 February 2008

Date of mailing of the international search report: 11 MAR 2008

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