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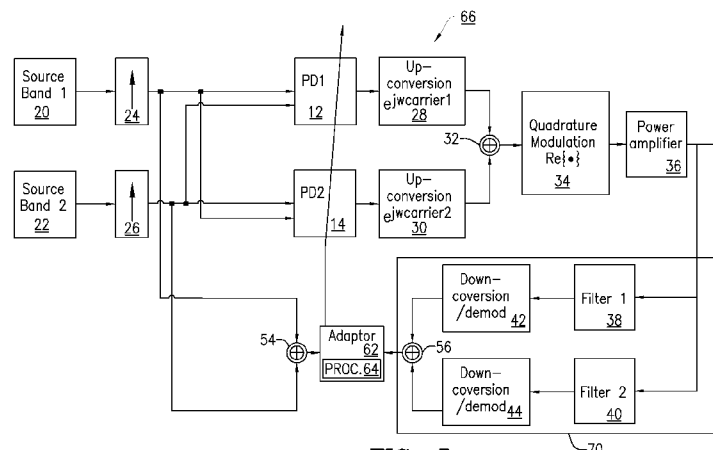


FIG. 5

(57) Abstract: A method and system for determining adaptation parameters for pre-distorters in a multi-band power amplifier system of a communication system are disclosed. A method includes receiving, at an adaptor, a reference signal comprising a first plurality of signals having substantially overlapping frequency spectra. Each of the first plurality of signals is input to a corresponding one of a plurality of pre-distorters. The adaptor also receives an observation signal comprising a second plurality of signals tuned to substantially a same frequency to have overlapping frequency spectra. Each of the second plurality of signals is derived from an output of the multi-band power amplifier system. The adaptor computes the adaptation parameters based on the reference signal and the observation signal.

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# INTERNATIONAL SEARCH REPORT

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> INV. H03F1/32                      H04B1/04 ADD.		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) H03F H04B		
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)  EPO-Internal, WPI Data		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SUNGHO CHOI ET AL: "Design of digital predistorters for wideband power amplifiers in communication systems with dynamic spectrum allocation", ACOUSTICS, SPEECH AND SIGNAL PROCESSING (ICASSP), 2011 IEEE INTERNATIONAL CONFERENCE ON, IEEE, 22 May 2011 (2011-05-22), pages 3204-3207, XP032001036, DOI: 10.1109/ICASSP.2011.5946703 ISBN: 978-1-4577-0538-0 Section III. Development of The Proposed PD; figure 3  <div style="text-align: center;">----- -/--</div>	1-21
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> 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 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	
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  <b>Lorenzo, Carlos</b>	

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>SEYED AIDIN BASSAM ET AL: "Subsampling Feedback Loop Applicable to Concurrent Dual-Band Linearization Architecture", IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 60, no. 6, 1 June 2012 (2012-06-01), pages 1990-1999, XP011445306, ISSN: 0018-9480, DOI: 10.1109/TMTT.2012.2192745 Section III. A. Dual-Band DPD Linearization Architecture; figure 4</p> <p align="center">-----</p>	1-21