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Previous Correction:
see Notice of 19 April 2007

(54) Title: TESTING OF RECEIVERS WITH SEPARATE LINEAR O/E MODULE AND HOST USED IN COMMUNICATION LINKS

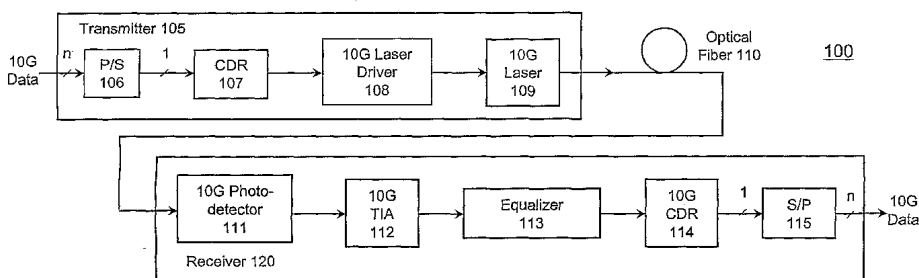


FIG. 1

(57) Abstract: A receiver for a communications link includes a receiver module and a host receiver. These two components can be tested independently, hi one embodiment, the receiver module is characterized with respect to noise and distortion. The noise performance can be determined by comparing input and output signals of the receiver module, to determine the relative noise of the receiver module. The distortion performance can be determined by comparing the distortion of input and output signals of the receiver module, using a reference host receiver that includes an equalizer. The host receiver can be tested by using a reference receiver module.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER IPC: H04B 10/08(2006.01),17/00(2006.01) USPC: 398/25,26 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) U.S. : 398/25,26 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) IEEE Xplore		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5579145 (Bogdan et al) 26 November 1996 (26.11.1996), figs. 3 and 5-7, col. 2 lines 23-31, col. 3 lines 39-42, col. 4 lines 55-65, col. 5 lines 63-66, col. 8 lines 49-65, col. 9 lines 10-58, col. 12 lines 50-54 and col. 13 lines 24-37	1, 10, 17-21 and 23
X	US 4921347 (Wong et al) 1 May 1990 (01.05.1990), fig. 2 and col. 6 lines 42-66, col. 7 lines 19-22 and col. 8 lines 17-25 and 27-33.	22
A	US 6259543 B1 (Golovchenko et al) 10 July 2001 (10.07.2001), abstract	1-10 and 13-24
A	US 6580531 (Swanson et al) 17 June 2003 (17.06.2003), abstract.	1-10 and 13-24
A	US 6590644 B1 (Coin et al) 8 July 2003 (09.07.2003), abstract	1-10 and 13-24
<input 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	"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	
"E" earlier application or patent published on or after the international filing date	"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	
"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)	"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	
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	
"P" document published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search 22 February 2008 (22.02.2008)	Date of mailing of the international search report 05 MAR 2008	
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer Jason Chan <i>Renc</i> Telephone No. (571) 272-2600	

INTERNATIONAL SEARCH REPORT

International application No.

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: 11 and 12
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Please See Continuation Sheet

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
 2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.
 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
- Remark on Protest**
- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
 - The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
 - No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

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Continuation of Box II Reason 2:

Claim 11 recites that the distortion metric standard of claim 10 is the IEEE 802.3aq standard. However, IEEE 802.3aq was published after the filing date of the instant application. Thus the disclosure cannot support compliance with IEEE 802.3aq because it pre-dates IEEE 802.3aq.

Claim 12 recites that the distortion metric calculated from a software simulation in claim 2 is based on compliance with a "10G standard" applicable to the receiver. The scope of this limitation is too vague. One cannot determine what 10G standard(s) is applicable to the receiver, nor what requirement(s) within such a standard is the basis for calculating a distortion metric from a software simulation.