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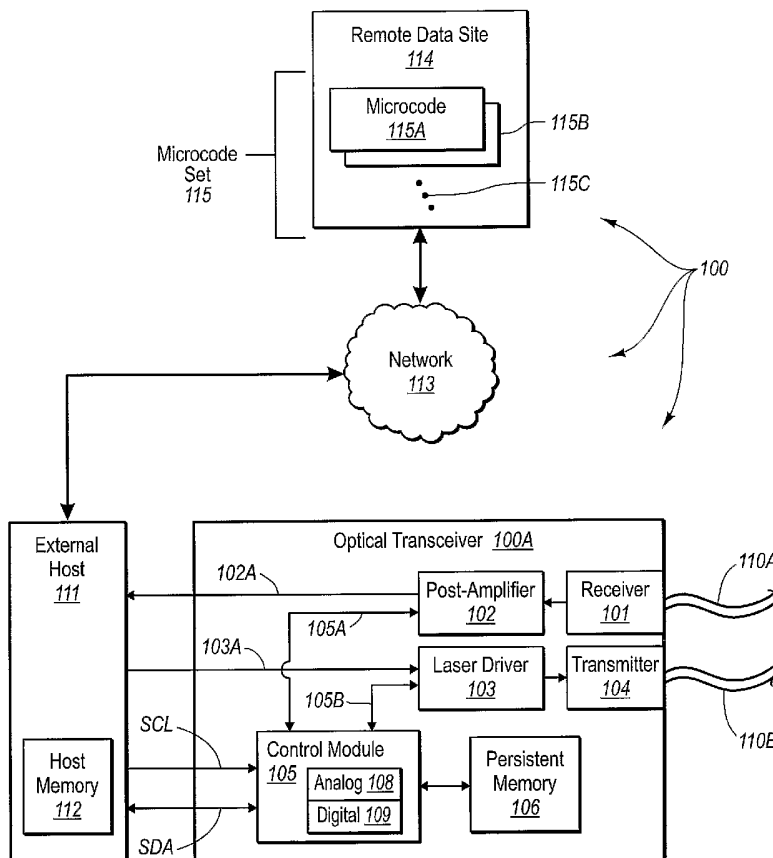
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[Continued on next page]

(54) Title: PROTOCOL SPECIFIC TRANSCIEVER FIRMWARE



(57) Abstract: An optical transceiver (100a) (or optical transmitter or optical receiver) that has at least one processor (105), and a memory (106). The optical transceiver is capable of implementing any one of a number of protocols depending on how the optical transceiver is configured in microcode. In order to so configure the optical transceiver, the optical transceiver is provided with one of a particular set of microcode, each of the set of microcode being capable of implementing a different protocol when received into the memory and executed. To implement the protocol, the provided microcode is then executed by the optical transceiver. To implement a different protocol, different microcode may be provided to the optical transceiver and executed.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H 04 B 10/00**

USPC: 398/135

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. : 398/135; 398/41

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,956,168 A (LEVINSON) 21 September 1999 (21.09.1999), entire document	1,2,6-10
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Y		3, 4, 5
Y	US 2002/0112070 A1 (ELLERBROCK) 15 August 2002 (15.08.2002), entire column	3, 4, 5

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"
"A" document defining the general state of the art which is not considered to be of particular relevance	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
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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