Abstract: Network elements are identified as being connected to optical nodes by instructing two network elements in a spectrum group of the CMTS to transmit at frequencies $f_1$ and $f_2$, respectively. Frequencies $f_1$ and $f_2$ are selected such that they produce intermodulation distortions (intermods) in the laser transmitter at $f_2$ when combined. If intermods are produced which exceed a predetermined threshold, then the two network elements are determined to be on the same node. If the total power of the signal by the laser transmitter exceeds an impact threshold, then the test is stopped and new network elements are selected for testing.
INTERNATIONAL SEARCH REPORT

International application No
PCT/US07/71755

A CLASSIFICATION OF SUBJECT MATTER
IPC(8) - H04N 7/173 (2007.10)
USPC - 725/119
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) - H04N 7/173 (2007.10)
USPC - 725/119

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)
MicroPatent

C DOCUMENTS CONSIDERED TO BE RELEVANT

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Date of the actual completion of the international search: 21 November 2007

Date of mailing of the international search report: 29 FEB 2008

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