Abstract: An optical tapped delay line device in accordance with the present invention is a method for and device for spatially resolving the spectral components of an optical signal, i.e., channelizing or spectrum analyzing the wavelength content of an optical signal. The device is based on a tapped optical delay line and enables numerous related optical signal processing functions.
INTERNATIONAL SEARCH REPORT

PCT/US06/03760

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G02B 6/04( 2006.01),6/06( 2006.01),27/20( 2006.01),27/12( 2006.01),27/30( 2006.01); HO4U 14/02; HO4B 10/12

USPC: 359/641,618,625-627,639,6405385/115,116398/82,86,88,14I

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. : 359/641,618,625-627,639,6405385/115,116398/82,86,88,14I

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)

EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category * / Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.

A) US 5,852,699 (LISSOTSCHENKO et al) 22 December 1998(22.12.1998), see figure 1 1-30

** 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 published on or after the international filing date

'V' 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

'K' document member of the same patent family

Further documents are listed in the continuation of Box C. 

See patent family annex.

Date of the actual completion of the international search

22 January 2007 (22.01.2007)

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