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(54) Title: MULTI-FUNCTION OPTICAL PERFORMANCE MONITOR

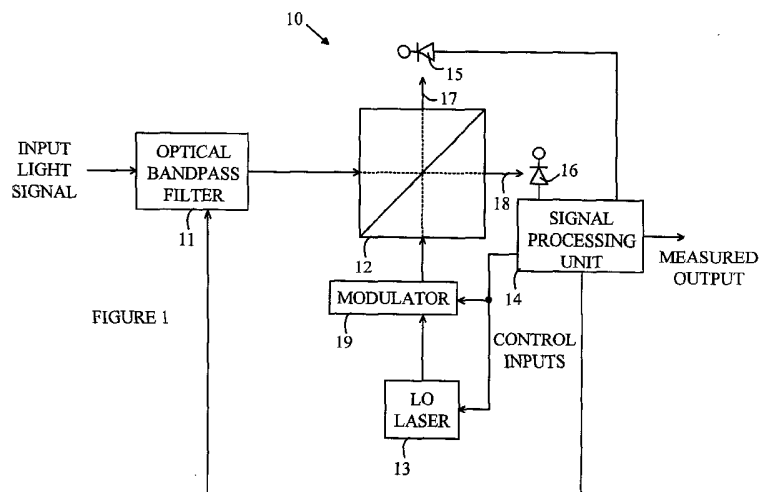


FIGURE 1

(57) Abstract: An optical monitor (10) that generates a signal indicative of at least two optical properties of an input optical signal. The monitor utilizes a polarization dependent beam splitter (12) having a signal input port, a mixing signal input, a first output port (7) and a second output port (18). The signal input port received an input optical signal having first and second orthogonal polarization components. The mixing signal input received an optical mixing signal having a first and second polarization component parallel to the first and second polarization components of the optical input signal, respectively. The polarization dependent beam splitter (12) generates first and second output signals on the first and second output ports (17, 18), respectively. The output signals are the sum of the like polarization components of the input optical signal and the optical mixing signal.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04B10/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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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 practical, search terms used)

WPI Data, PAJ, INSPEC, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 477 369 A (MAHON CATHAL J ET AL) 19 December 1995 (1995-12-19) column 3, line 60 -column 5, line 20; figure 1 ---	1, 10, 12
X	US 5 003 626 A (KUWAHARA HIDEO ET AL) 26 March 1991 (1991-03-26) column 5, line 29 - line 54; figure 7 column 10, line 39 -column 11, line 6; figure 17 ---	1, 10, 12
X	US 5 717 489 A (OZEKI TAKESHI ET AL) 10 February 1998 (1998-02-10) column 4, line 30 -column 5, line 35; figure 1 -----	1, 10, 12

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Further documents are listed in the continuation of box C.

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Patent family members are listed in annex.

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Information on patent family members

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