

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/21410

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04J 14/00 (2008.01)

USPC - 398/58

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): H04J 14/00 (2008.01)

USPC: 398/58

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

IPC(8): H04J 14/08 (2008.01)

USPC: 398/118, 398/135, 398/140

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWest (USPB, USPT, USOC, EPAB, JPAB), DialogPro, GoogleScholar; method receiving propagating signal optical network component extracting wave frequency transformation identify intensity input emit output processor sense electromagnetic radiation wavelengths transponder dithering tone intensity terminate first second

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/0048538 A1 (Kowalski), 06 December 2001 (06.12.2001), para [0024]; [0028]; [0030]-[0032]; [0044]-[0045]; [0047]; [0051]-[0054]; [0057]; [0059]-[0060]; [0063]-[0064]	1-8, 10-11, 13, 16-22
Y		9, 12, 14-15, 23-25
Y	US 2003/0138251 A1 (Jayaram et al.), 24 July 2003 (24.07.2003), para [0041]-[0042]	9
Y	US 2001/0040710 A1 (Sharratt et al.), 15 November 2001 (15.11.2001), Figs. 6-7; para [0003]; [0105]; [0111]-[0113]; [0115]-[0116]	12, 14-15
Y	US 6,101,012 A (Danagher et al.), 08 August 2000 (08.08.2000), col. 2, lines 37-56; col. 4, lines 2-28; col. 7, lines 1-18 and lines 19-46	15, 23-25
A	US 2002/0109879 A1 (Wing So), 15 August 2002 (15.08.2002), entire document	1-25

☐ Further documents are listed in the continuation of Box C.

* 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 but published on or after the international filing date

"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)

"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

"&" document member of the same patent family

Date of the actual completion of the international search

08 February 2008 (08.02.2008)

Date of mailing of the international search report

31 MAR 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents

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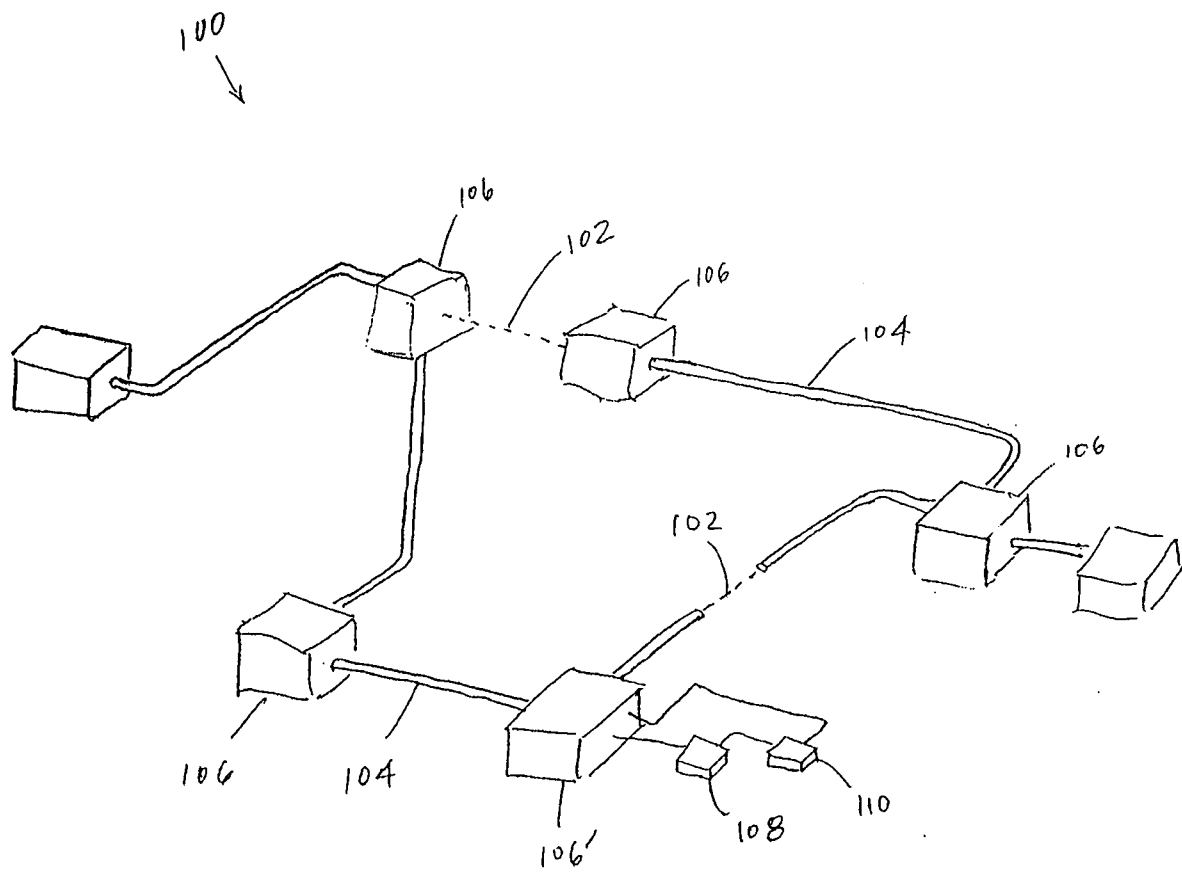


Fig. 1