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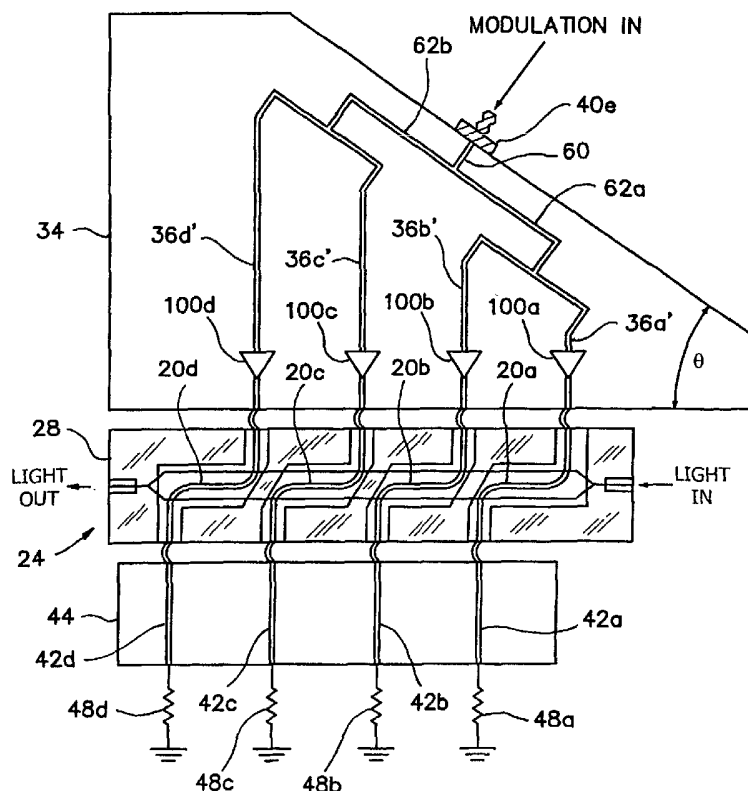
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[Continued on next page]

(54) Title: CORPORATE FEED FOR 40 GHZ MODULATORS AND METHOD FOR USE OF THE SAME



(57) Abstract: Improvements in an electro-optic modulator with a segmented optical transmission network with a series of discrete electrodes (20a - 20d) for successive segments of the network include drivers at the output of a corporate feed into the modular transmission line (36a - 36d). The penalty of N suffered from division of the input power is thus avoided. Respective modulating signals are supplied to the electrodes (20a - 20d) along the transmission lines (36a - 36d) whose lengths differ from each other, so that modulating signals arrive at their respective electrodes (20a - 20d) in synchronism with the propagation of an optical signal through the optical transmission network. The differential loss in the different feed line lengths in the corporate feed (36a' - 36d') are compensated by adjusting the gains of the amplifiers (100a - 100d) or by incorporating additional attenuation in the legs of the corporate feed.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G02F 1/01, 1/035, 1/295, 1/335

US CL : 385/1, 2, 3, 4, 5, 8, 14, 147

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. : 385/1, 2, 3, 4, 5, 8, 14, 147

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

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.
Y	US 5,010,586 A (Mortimore et al) 23 April 1991 (23.04.1991), see the entire document	1-25
Y	US 5,291,565 A (SCHAFFNER et al) 01 March 1994 (01.04.1994), see the entire document	1-25
Y	US 6, 014,237 A (ABELES et al) 11 January 2000 (11.01.2000) see the entire document	1-25
Y	US 6,034,801 A (PFEIFFER) 07 March 2000 (07.03.2000), see the entire document	1-25
Y	US 6,388,782 B1 (STEPHENS et al) 14 May 2002 (14.05.2002) see the entire document	1-25



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"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	"&" document member of the same patent family

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