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— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

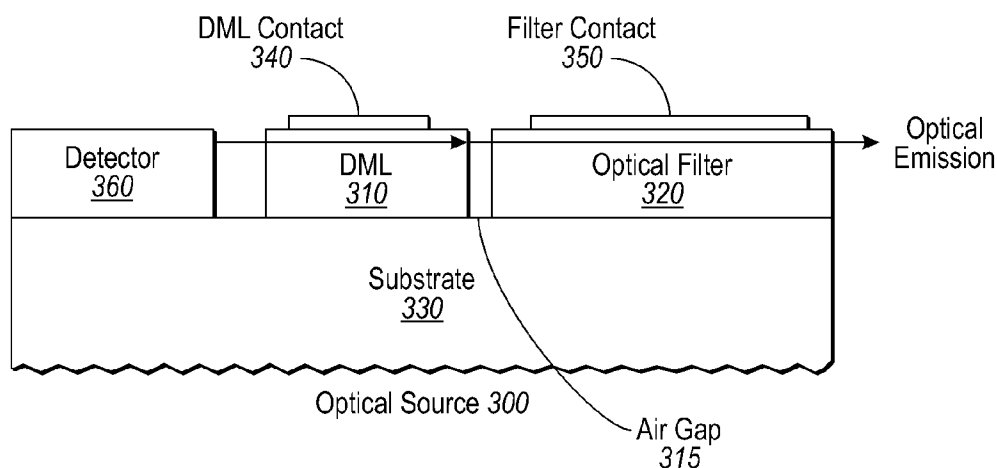
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(54) Title: DIRECTLY MODULATED LASER WITH INTEGRATED OPTICAL FILTER



(57) Abstract: An integrated optical source includes a Directly Modulated Laser (DML) and a filter which is positioned with the DML on a common substrate. The filter is configured to receive an input signal in the form of a modulated chirped optical signal. The filter is further configured to provide an output optical signal in the form of an amplitude and/or phase modulated optical signal, optimized for long-distance transmission in optical fiber.



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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/62900

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04B 10/00 (2007.10)

USPC - 398/160

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) - H04B 10/00 (2007.10)

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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 practicable, search terms used)

Database: MicroPatent

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/0152702 A1 (MAHGEREFTEH et al) 14 July 2005 (14.07.2005) entire document	1-22, 24-25
Y		23
Y	US 2005/0018732 A1 (BOND et al) 27 January 2005 (27.01.2005) entire document	23

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