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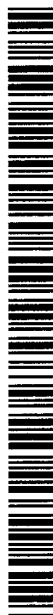
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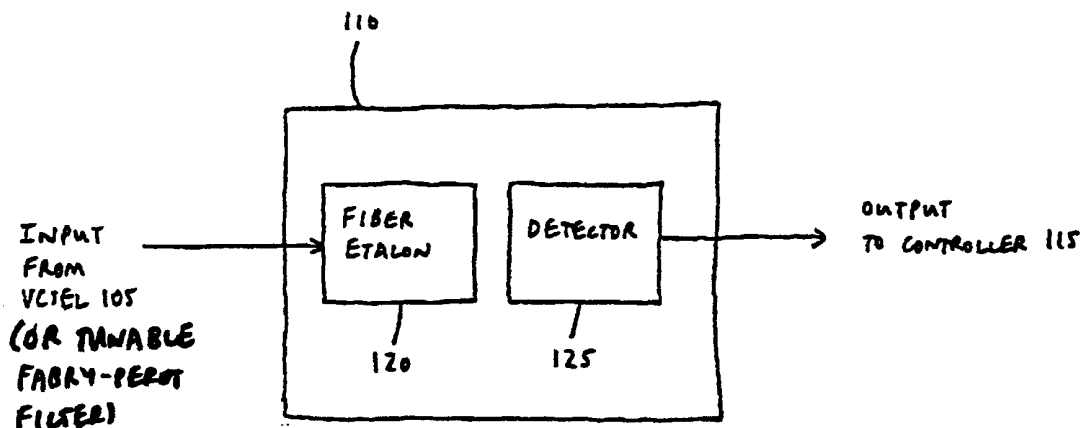
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60/148,016 10 August 1999 (10.08.1999) US
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(54) Title: OPTICAL FIBER WAVELENGTH REFERENCE DEVICE



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(57) Abstract: An optical fiber wavelength reference device (110) for tuning a tunable Fabry-Perot filter (105) and/or a tunable VCSEL (105) to a desired frequency, where the device uses a fiber etalon (120) to generate a pattern of reference frequencies against which the device is tuned. In addition, the device uses a detector (125) to monitor the output of the Fiber Etalon (120). The output of the detector (125) is inputted to a controller (115) used to control the VCSEL (105) or tunable Fabry-Perot filter (105).

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/21900

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H01S 3/10 US CL : 372/20 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. : 372/20, 29, 32 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) APS																			
C. DOCUMENTS CONSIDERED TO BE RELEVANT																			
<table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>US 5,243,614 A (Wakata et al.) 07 September 1993 (07.09.93), col. 11, lines 9-58.</td> <td>1-3</td> </tr> <tr> <td>Y</td> <td>US 5,434,877 A (Chung) 18 July 1995 (18.06.95), col. 2, line 60-col. 5, line 8.</td> <td>1-3</td> </tr> <tr> <td>Y</td> <td>US 5,646,762 A (Delavaux et al.) 08 July 1997 (08.07.97), col. 1, line 65-col. 2, line 23.</td> <td>1-3</td> </tr> <tr> <td>Y,P</td> <td>US 5,970,076 A (Hamada) 19 October 1999 (19.10.99), col. 6, line 1-col. 8, line 37.</td> <td>1-3</td> </tr> <tr> <td>Y,P</td> <td>US 6,008,935 A (Fujita et al.) 28 December 1999 (28.12.99), abstract.</td> <td>1-3</td> </tr> </tbody> </table>	Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	Y	US 5,243,614 A (Wakata et al.) 07 September 1993 (07.09.93), col. 11, lines 9-58.	1-3	Y	US 5,434,877 A (Chung) 18 July 1995 (18.06.95), col. 2, line 60-col. 5, line 8.	1-3	Y	US 5,646,762 A (Delavaux et al.) 08 July 1997 (08.07.97), col. 1, line 65-col. 2, line 23.	1-3	Y,P	US 5,970,076 A (Hamada) 19 October 1999 (19.10.99), col. 6, line 1-col. 8, line 37.	1-3	Y,P	US 6,008,935 A (Fujita et al.) 28 December 1999 (28.12.99), abstract.	1-3	
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.																			
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Date of the actual completion of the international search 04 JANUARY 2001	Date of mailing of the international search report 25 JAN 2001																		
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer JEFFREY N. ZAHN <i>[Signature]</i> Telephone No. (703) 308-0956																		

INTERNATIONAL SEARCH REPORT

International application No.
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y,E	US 6,134,253 A (Munks et al.) 17 October 2000 (17.10.00), col. 6, line 66-col. 8, line 26.	1-3