

Title (en)

OPTICAL MODULE FOR THE WAVELENGTH REFERENCE MEASUREMENT IN WDM SYSTEMS

Title (de)

OPTISCHES MODUL ZUR WELLENLÄNGEN-REFERENZMESSUNG IN WDM-SYSTEMEN

Title (fr)

MODULE OPTIQUE POUR MESURE DE REFERENCE DE LONGUEURS D'ONDE DANS DES SYSTEMES WDM

Publication

**EP 1266198 A1 20021218 (DE)**

Application

**EP 01925305 A 20010319**

Priority

- DE 0101079 W 20010319
- DE 10014644 A 20000324

Abstract (en)

[origin: WO0173387A1] The invention relates to an optical module for the wavelength reference measurement. The inventive module is essentially provided with an optical waveguide (7) having an integrated fibre Bragg grating (8) which is provided with a transmission maximum at a desired wavelength. A photodetector (10) for receiving the measuring radiation bundle that has penetrated the fibre Bragg grating (8) is arranged downstream in relation to the fibre Bragg grating (8). A reference radiation bundle can be produced by means of a beam splitter (5) if desired. Said bundle is detected in an additional photodetector (6).

IPC 1-7

**G01J 9/00**; **H04J 14/02**

IPC 8 full level

**G01J 9/00** (2006.01); **G02B 6/42** (2006.01); **H04B 10/00** (2013.01); **H04B 10/02** (2006.01); **H04B 10/079** (2013.01); **H04B 10/08** (2006.01); **G02B 6/28** (2006.01); **G02B 6/34** (2006.01); **H04J 14/02** (2006.01)

CPC (source: EP US)

**G01J 9/00** (2013.01 - EP US); **G02B 6/4215** (2013.01 - EP US); **H04B 10/07957** (2013.01 - EP US); **G02B 6/2817** (2013.01 - EP US); **G02B 6/29317** (2013.01 - EP US); **G02B 6/4246** (2013.01 - EP US); **G02B 6/4249** (2013.01 - EP US); **G02B 6/4263** (2013.01 - EP US); **G02B 6/4266** (2013.01 - EP US); **H04J 14/02** (2013.01 - US)

Designated contracting state (EPC)

AT BE CH DE FR GB LI

DOCDB simple family (publication)

**WO 0173387 A1 20011004**; DE 10014644 A1 20011011; EP 1266198 A1 20021218; US 2003067658 A1 20030410; US 6783284 B2 20040831

DOCDB simple family (application)

**DE 0101079 W 20010319**; DE 10014644 A 20000324; EP 01925305 A 20010319; US 25322002 A 20020924