

Title (en)
INTEGRATED OPTICS REFLECTOMETER

Title (de)
INTEGRIERTES OPTISCHES REFLEKTOMETER

Title (fr)
RÉFLECTOMÈTRE OPTIQUE INTÉGRÉ

Publication
EP 2826112 A4 20160420 (EN)

Application
EP 13761364 A 20130314

Priority
• US 201261610533 P 20120314
• US 2013031657 W 20130314

Abstract (en)
[origin: WO2013138653A1] An apparatus includes a laser source configured to output laser light at a target frequency, and a measurement unit configured to measure a deviation between an actual frequency outputted by the laser source at a current period of time and the target frequency of the laser source. The apparatus includes a feedback control unit configured to, based on the measured deviation between the actual and target frequencies, control the laser source to maintain a constant frequency of laser output from the laser source so that the frequency of laser light transmitted from the laser source is adjusted to the target frequency. The feedback control unit can control the laser source to maintain a linear rate of change in the frequency of its laser light output, and compensate for characteristics of the measurement unit utilized for frequency measurement. A method is provided for performing the feedback control of the laser source.

IPC 8 full level
H01S 3/10 (2006.01); **G01J 9/00** (2006.01); **H01S 3/086** (2006.01)

CPC (source: EP KR)
G01D 5/35316 (2013.01 - EP KR); **G01D 5/35354** (2013.01 - EP KR); **G01J 9/00** (2013.01 - EP KR); **G01M 11/3172** (2013.01 - EP KR); **H01S 5/0687** (2013.01 - EP KR)

Citation (search report)
• [X] EP 2234224 A2 20100929 - FURUKAWA ELECTRIC CO LTD [JP]
• [A] US 2009141756 A1 20090604 - HIREMATH CHANNAMALLESH G [US]
• [A] WO 2008013705 A2 20080131 - LUNA INNOVATIONS INC [US], et al
• See references of WO 2013138653A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2013138653 A1 20130919; EP 2826112 A1 20150121; EP 2826112 A4 20160420; HK 1206874 A1 20160115; JP 2015514306 A 20150518; JP 6305975 B2 20180404; KR 102079807 B1 20200220; KR 20150028956 A 20150317

DOCDB simple family (application)
US 2013031657 W 20130314; EP 13761364 A 20130314; HK 15105623 A 20150615; JP 2015500633 A 20130314; KR 20147028822 A 20130314