

Title (en)

TUNABLE OPTICAL FILTERS HAVING ELECTRO-OPTIC WHISPERING-GALLERY-MODE RESONATORS

Title (de)

ABSTIMMBARE OPTISCHE FILTER MIT ELEKTROOPTISCHEN WHISPERING-GALLERY-MODE-RESONATOREN

Title (fr)

FILTRES OPTIQUES ACCORDABLES COMPRENANT DES RESONATEURS ELECTRO-OPTIQUES A MODE DE GALERIE

Publication

**EP 1595167 A2 20051116 (EN)**

Application

**EP 04707796 A 20040203**

Priority

- US 2004003043 W 20040203
- US 44442303 P 20030203
- US 70220103 A 20031104

Abstract (en)

[origin: WO2004070432A2] Tunable optical filters using whispering-gallery-mode (WGM) optical resonators are described. The WGM optical resonator in a filter exhibits an electro-optical effect and hence is tunable by applying a control electrical signal.

IPC 1-7

**G02B 1/00**

IPC 8 full level

**G02F 1/01** (2006.01); **G02B 1/00** (2006.01); **G02F 1/035** (2006.01); **G02B 6/34** (2006.01)

CPC (source: EP)

**G02B 6/29341** (2013.01); **G02F 1/011** (2013.01); **G02F 1/035** (2013.01); **G02B 6/29352** (2013.01); **G02F 2203/055** (2013.01); **G02F 2203/15** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2004070432 A2 20040819; WO 2004070432 A3 20050707**; CA 2514818 A1 20040819; EP 1595167 A2 20051116; EP 1595167 A4 20100120; JP 2006515081 A 20060518; JP 4564923 B2 20101020

DOCDB simple family (application)

**US 2004003043 W 20040203**; CA 2514818 A 20040203; EP 04707796 A 20040203; JP 2005518867 A 20040203