

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

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Application

**EP 04707796 A 20040203**

Priority

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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

**G02F 1/01**; **G02B 1/00**; **G02F 1/035**; **G02B 6/34**

IPC 8 full level

**G02F 1/01** (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)

Citation (search report)

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- [A] WO 0171401 A1 20010927 - CALIFORNIA INST OF TECHN [US], et al
- [A] US 2003012504 A1 20030116 - ILTCHENKO VLADIMIR [US]
- [XI] ILCHENKO V S ET AL: "Tunability and synthetic lineshapes in high-Q optical whispering-gallery modes", LASER RESONATORS AND BEAM CONTROL VI, THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, vol. 4969, 28 January 2003 (2003-01-28) - 30 January 2003 (2003-01-30), San Jose, Ca, USA, pages 195 - 206, XP002558876, ISSN: 0277-786X
- [XII] ILCHENKO V S ET AL: "Sub-MicroWatt Photonic Microwave Receiver", IEEE PHOTONICS TECHNOLOGY LETTERS, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 14, no. 11, 1 November 2002 (2002-11-01), XP011067384, ISSN: 1041-1135
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- See references of WO 2004070432A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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