

Title (en)

MEASURING SPECTRAL LINES FROM AN ANALYTE USING MULTIPLEXED HOLOGRAMS AND POLARIZATION MANIPULATION

Title (de)

MESSUNG DER SPEKTRALLINIEN EINES ANALYTEN UNTER VERWENDUNG VON MULTIPLEXIERTEN HOLOGRAMMEN UND POLARISATIONSMANIPULATION

Title (fr)

MESURE DE LIGNES SPECTRALES D'UN ANALYTE PAR HOLOGRAMMES MULTIPLEX ET MANIPULATION DE POLARISATION

Publication

EP 1774374 A4 20100331 (EN)

Application

EP 05776433 A 20050722

Priority

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- US 59041304 P 20040722
- US 18735005 A 20050721

Abstract (en)

[origin: WO2006012514A2] An optical apparatus in which multiplexed holograms are used to achieve wavelength selectivity and polarization manipulation is used to facilitate near-normal incidence of light on the holograms. The polarization manipulation allows light reflected from the holograms to be separated from the light incident on the holograms. In one application, the apparatus can be used to extract spectral lines of an analyte from radiation scattered from a sample.

IPC 8 full level

G02B 5/32 (2006.01)

CPC (source: EP KR)

G01J 3/1838 (2013.01 - EP); **G01J 3/28** (2013.01 - KR); **G01J 3/44** (2013.01 - EP); **G01J 3/447** (2013.01 - EP); **G01J 4/00** (2013.01 - KR); **G01N 21/21** (2013.01 - EP); **G01N 21/31** (2013.01 - EP); **G01N 21/65** (2013.01 - EP); **G01N 2021/216** (2013.01 - EP); **G01N 2021/3137** (2013.01 - EP); **G01N 2021/317** (2013.01 - EP); **G01N 2021/3177** (2013.01 - EP); **G02B 5/203** (2013.01 - EP); **G02B 5/32** (2013.01 - EP)

Citation (search report)

- [X] US 6525846 B1 20030225 - YAN DAPENG [US], et al
- [A] WO 0201268 A1 20020103 - OPTICROM INC [US], et al
- [A] EP 0930485 A2 19990721 - WEITZEL THILO [DE]
- See references of WO 2006012514A2

Citation (examination)

US 5999282 A 19991207 - SUZUKI TETSUJI [JP], et al

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WO 2006012514 A2 20060202; **WO 2006012514 A3 20070201**; EP 1774374 A2 20070418; EP 1774374 A4 20100331; KR 20070050445 A 20070515

DOCDB simple family (application)

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